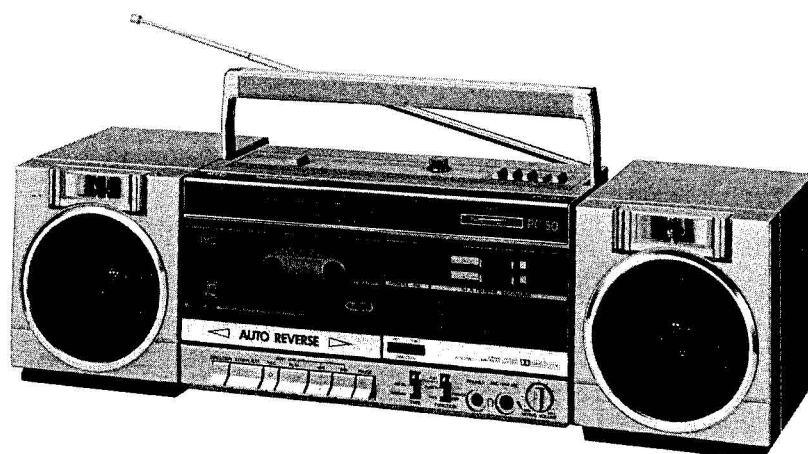


JVC**SERVICE MANUAL**

PORTABLE COMPONENT SYSTEM

MODEL **PC-50 B/E/G****Contents**

	Page		Page
Safety Precautions	2	Standard Schematic Diagram of PC-50	
Features	3	(Tuner Circuit)	23
Specifications	3	(DOLBY Circuit)	24
Parts Functions and Nomenclature	4	(S.E.A Circuit)	25
Connections	6	Exploded View of Enclosure Assembly	
Attaching and Detaching the Speakers	7	and Electrical Parts	25
Location of Main Parts	9	Main and S.E.A. P.C. Board Parts	26
Removal of Main Parts	10	Tuner P.C. Board Parts and Parts List	27
How to Engage Dial Cord	11	DOLBY P.C. Board Parts and Parts List	28
Integrated Circuit	12	Exploded View and Parts List for Speaker System	28
Block Diagram		Exploded View of Mechanical Component Parts	29
Amplifier Section	14	Enclosure Assembly and Electrical Parts List	30
Tuner Section	14	Main and S.E.A. P.C. Board Parts List	31
Main Adjustment	15	Mechanical Component Parts List	33
Axial Type Ceramic Capacitor	20	Packing and Packing Parts List	35
Wiring Connections	21	Accessories	Back Cover
Standard Schematic Diagram of PC-50			
(Amplifier Circuit)	22		

Safety Precautions

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.

For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (Δ) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.

5. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).

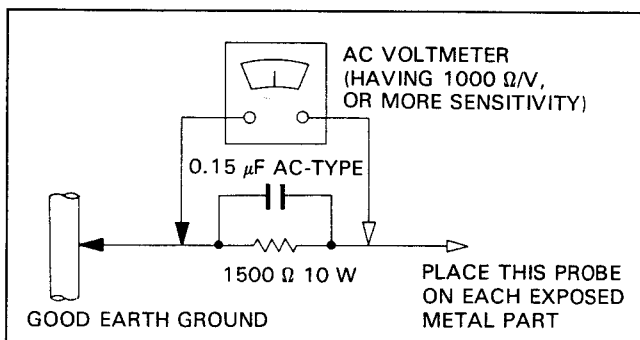
- Alternate check method.

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.)

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Features

1. Fashionable mini stereo component system

- Fashionable P-Compo system consisting of 3 units with attachable/detachable speakers.

2. Total output of 12 W (6 W + 6 W) max.

- "U-Turn" Auto-reverse deck for recording/playback with soft-touch mechanism
- Microphone mixing is possible in playback.
- Built-in DOLBY* B noise reduction system.
- Single music scan facility in both directions.
"Under license from Staar S.A, Brussels, Belgium."
- Two-position tape select switch for playback (METAL (CrO₂)/NORMAL).
- 5-element S.E.A. Graphic equalizer.

- 2-way power supply (AC batteries and external DC).
- AUX IN jacks provided (Pin × 2).
- DIN (REC/PB) jack provided (E version only).

3. 2-way 4 Speaker system.

- Extendable speaker stands.
- Speaker cords.

*Noise reduction system manufactured under license from DOLBY Laboratories Licensing Corporation.

*"DOLBY" and the double-D symbol are trademarks of DOLBY Laboratories licensing Corporation.

Specifications

Radio section

Frequency ranges	: FM 88—108 MHz MW 540—1600 kHz SW 6—18 MHz LW 150—350 MHz
Antennas	: Telescopic antenna for FM & SW Ferrite core antenna for MW & LW

Tape recorder section

Track system	: 4-track 2-channel stereo
Motors	: Electronic governor DC motor for capstan & reel
Heads	: METAPERM head (for recording/playback)/2-Gap Ferrite head (for erasure) combination head
Frequency response	: 60—13,000 Hz (with normal tape)
Wow & flutter	: 0.14% (WRMS)
Rewind time	: Approx. 110 sec. (C-60 cassette)
Fast forward time	: Approx. 110 sec. (C-60 cassette)

General

Power output	: Max. 12 W (6 W + 6 W) (3 Ω) 5 W per channel at 10% THD
S.E.A characteristics	: S.E.A. center frequencies: 100 Hz/330 Hz/1 kHz/3.3 kHz/ 10 kHz S.E.A. control range: ± 10 dB
Input jacks	: Mic × 1 (0.8 mV (− 62 dBV))/ (2.3 mV, − 53 dBV when using as mixing mic) Matching impedance: 200 Ω—2 kΩ AUX IN × 2 (300 mV/27 kΩ)

Output jacks	: Speaker × 2 (matching impedance 3—8 Ω) Headphones (0—50 mV/8 Ω) (matching impedance 8—32 Ω)
DIN jack (E only)	: Min. input level: 0.6 mV/kΩ Input impedance: 10 kΩ Output level: 300 mV/− 8 dBs Output impedance: 3.3 kΩ
Power supply	: AC 240/220/110 V, 50/60 Hz DC 12 V (R14 ("C") battery × 8)
Power consumption	: 18 W
Dimensions	: 512(W) × 154(H) × 189(D) mm (20-1/4" × 6-1/8" × 7-1/2") including knobs
Weight	: Approx. 4.3 kg (9.5 lbs) (without batteries) Approx. 4.7 kg (10.3 lbs) (with batteries)

Speaker section

Speakers	: 10 cm (4") × 1, 2 cm (13/16") × 1
Impedance	: 3 Ω
Dimensions	: 123(W) × 145(H) × 153(D) mm (4-7/8" × 5-3/4" × 6-1/8") (with the speaker stand folded away)
Weight	: Approx: 0.8 kg (1.8 lbs)

Design and specifications are subject to change without notice for improvement.

Parts Functions Nomenclature

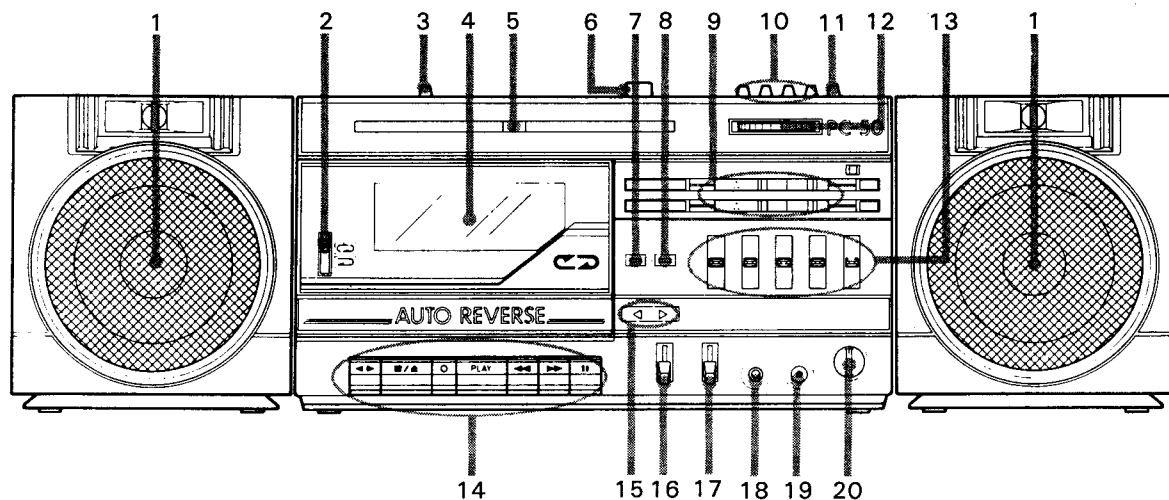


Fig. 1

1. Speakers (Left, Right)
2. REVERSE MODE switch
 - ◀ : Continuous play
 - ▶ : Full recording or playback
3. DOLBY NR (B-type) switch

Set to ON (—) when recording or playing back tape using the noise reduction system.
4. Cassette holder
5. Dial scale
6. FINE TUNING knob for SW reception
7. POWER (BATTERY) indicator

Indicates whether power is supplied or how much the battery power has been consumed.
8. FM STEREO indicator

Lights when an FM stereo broadcast is received.
9. VOLUME controls

Use the upper control to adjust the volume of the left speaker and use the lower control to adjust the right speaker. These controls also adjust the headphone volume.
10. BAND switches (SW/LW/MW/FM)
11. FM MODE switch

Use when receiving FM broadcasts.

 - (—) STEREO:

Set to this position when receiving FM broadcasts.
 - (—) MONO:

Set to the position when it is hard to hear the broadcast due to noise.
12. TUNING knob
13. S.E.A. Graphic Equalizer controls
14. Cassette operation buttons
 - ◀▶ DIRECTION button

Press to change the direction of tape travel.
 - /▲ Stop/Eject button

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.
 - REC button

Press this button with the PLAY button to start recording. When the || PAUSE button has been pressed, pressing this button with the PLAY button enters the record standby mode so recording can be restarted with good timing.
 - ◀ PLAY button

Press to play or scan the tape.
 - ◀◀ (Rewind) button

Press to wind the tape rapidly from right to left. In addition, this button is also used for music scanning.
 - ▶▶ (Fast Forward) button

Press this button to fast wind the tape from left to right. In addition, this button is also used for music scanning.
 - || PAUSE button

Press to stop the temporarily. Press again to release the pause mode.
15. DIRECTION indicator

The orange indicator shows the direction of tape travel.

The ▶ indicator shows the forward direction and ◀ indicator shows the reverse direction. Press the ◀▶ DIRECTION button to change the direction of tape travel.

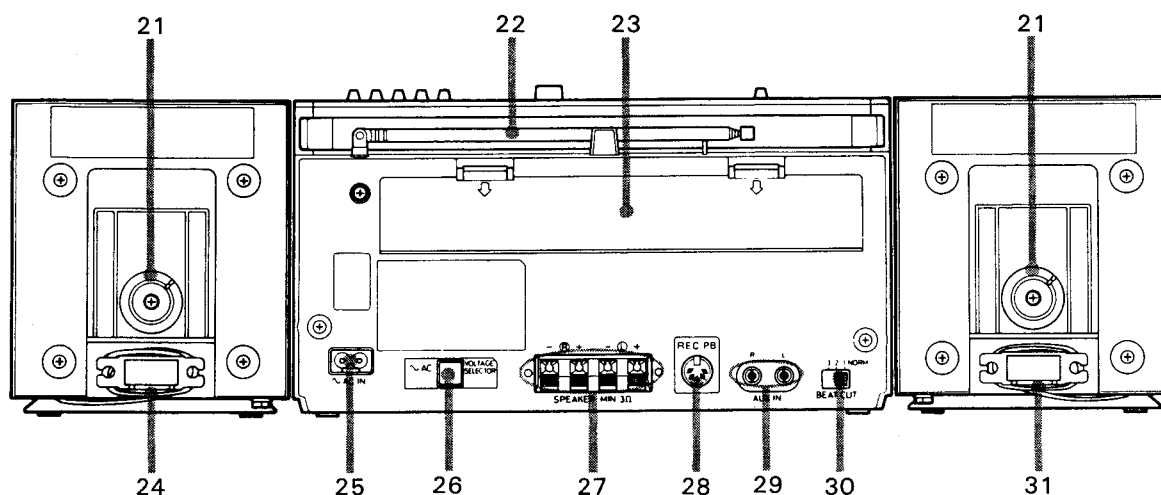


Fig. 2

16. **TAPE switch (for playback)**
Set the switch according to the tape to be used. CrO₂ tape can be used with the switch in the METAL position.
17. **FUNCTION switch**
AUX/DIN:
Set to this position when listening to or recording the source connected to the AUX IN jacks or DIN jack.
TUNER:
Set to this position when listening to the radio or recording from the radio.
TAPE/POWER STANDBY:
Set to this position when listening to tape or recording from an external microphone. Also set to this position after using the unit to switch off the power.
18. **Headphones jack (PHONES) (3.5 mm dia. stereo miniplug)**
This is the headphones jack (with an impedance of 8 Ω to 32 Ω). Inserting the plug cuts the speaker sound off.
19. **MIC/MIX MIC (microphone/mixing microphone) jack**
When recording through microphones, connect microphone (with an impedance of 200 Ω to 2 k Ω) to this jack.
20. **MIXING VOLUME control**
Adjusts the volume level when mixing using microphone. This control does not operate during recording with a microphone.
21. **SPEAKER STAND knobs (Right and Left)**
RELEASE:
Set to this position to extend the speaker stands.
LOCK:
Set to this position to fix the speaker stands.
22. **Telescopic antenna for FM or SW reception**
23. **Battery compartment cover**
24. **Speaker cord (Right)**
25. **AC IN jack**
With the power cord connected, the power is automatically switched to AC current, even if the batteries are inserted.
26. **VOLTAGE SELECTOR (240/220/110 V)**
27. **SPEAKER terminal**
Connect the speaker cord.
28. **DIN jack (REC/PB) (E/G version only)**
When recording or playing back through external stereo components, hook up is performed via this jack using a DIN connecting cord.
29. **AUX IN jacks**
30. **BEAT CUT switch**
31. **Speaker cord (Left)**

Connections

- Do not switch the power on until all the connections are completed.

* Connection of Speaker Cord

Regarding the speaker cords, be sure to connect the same channels, (L) to (L) and (R) to (R), or the same polarities, (+) to (+) and (−) to (−). Further, connect to the (−) terminal the wire marked with a black line. Because reversed connection of (+) and (−) causes degraded stereo feeling and sound quality.

Note: When connecting the speaker cords, connect the (−) terminal first.

- Concerning any connection cord, be sure to connect the same channels, (L) to (L) and (R) to (R), and positively insert each pin plug to the pertinent jack. Incomplete insertion may cause no sound to be emitted or noise to occur.

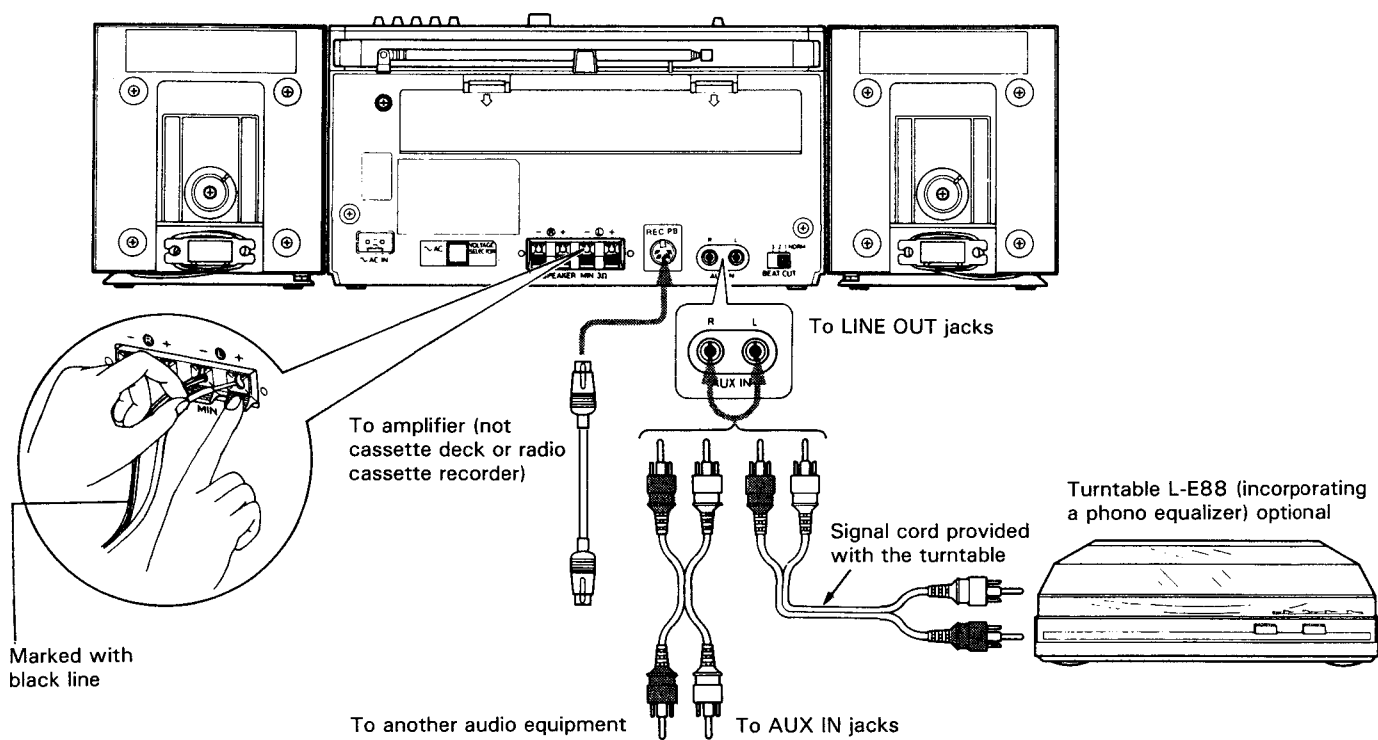


Fig. 3

Attaching and Detaching the Speakers

When using the speakers attached to the main unit

1. Hold with the bottom of the speaker against to top of the main unit and press down the speaker to attach it.

Note: Be sure to set the speaker lock lever to RELEASE.

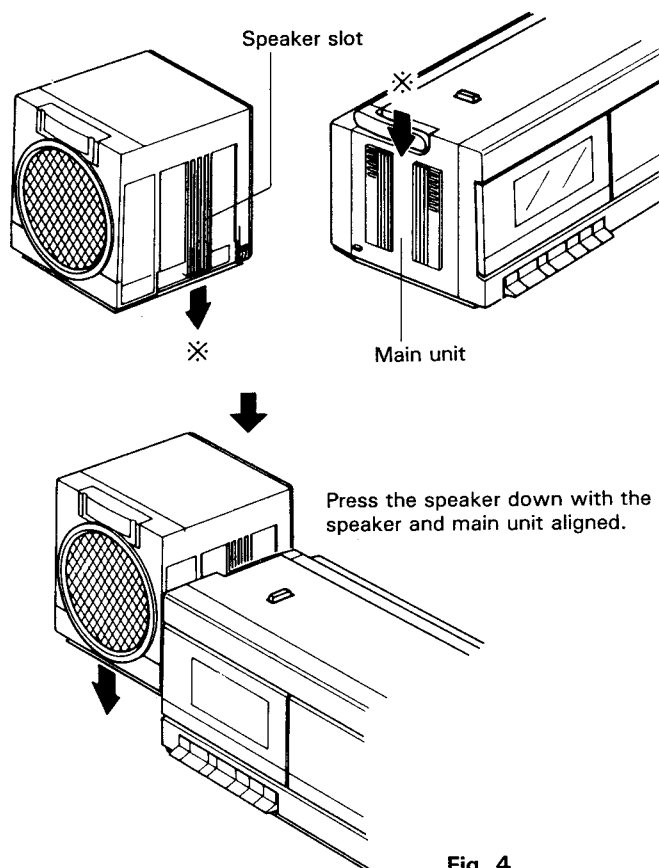


Fig. 4

2. Press the speaker down till it locks in place with a click sound.

- The right speaker is attached in the same way.

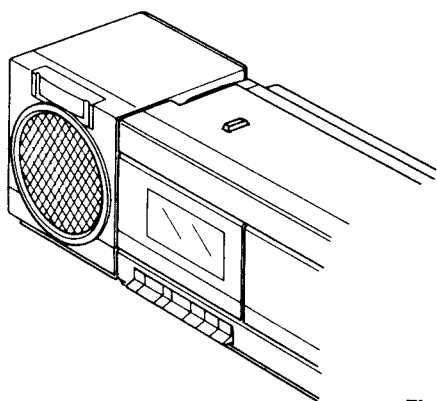


Fig. 5

When using the speakers detached from the main unit.

Lift the speaker up to detach from the main unit, pressing the lock lever at the rear bottom of speaker in the direction of the arrow.

- A better stereo effect can be obtained when the speakers are placed an appropriate distance from the main unit.
- The right speaker is detached in the same way.

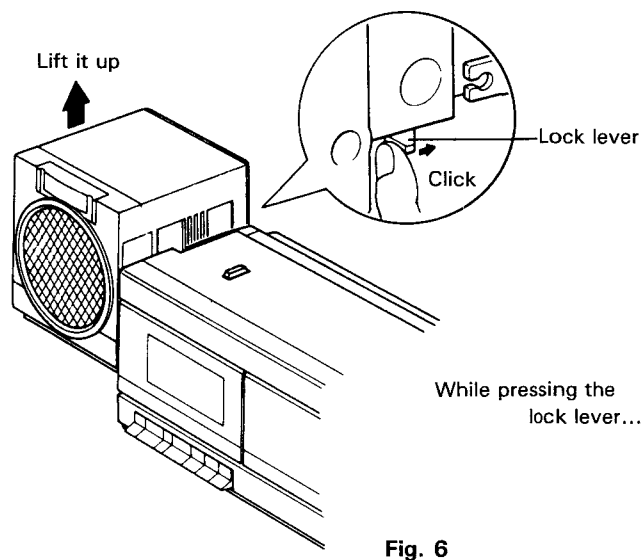


Fig. 6

Note: Unplug the speaker cords prior to attaching and detaching the speakers when the speaker cords have been connected to the main unit.

To extend the speaker stands

1. Turn the SPEAKER STAND knob situated on the rear panel of the speaker to the RELEASE position.

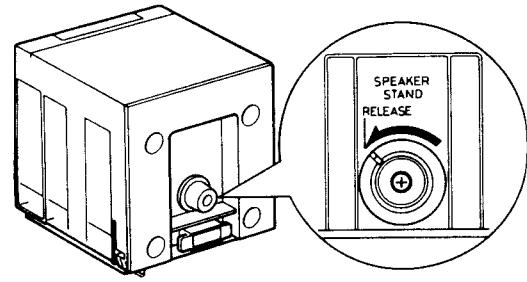


Fig. 7

2. Extend the speaker stand by pulling in the direction of the arrow.

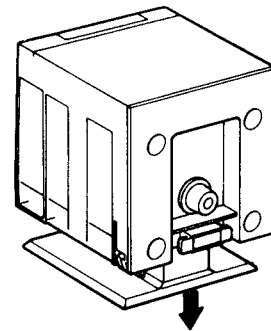


Fig. 8

3. Fix the speaker stand by turning the SPEAKER STAND knob to the LOCK position.
 - Using the speaker stands reduces sound reflection and improves response.

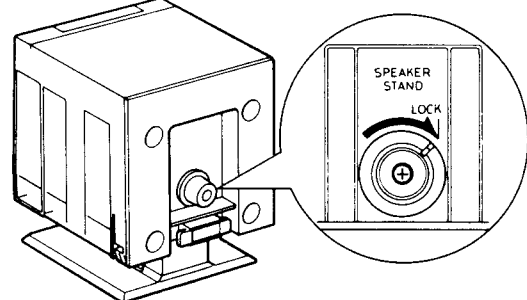


Fig. 9

4. The right speaker stand is extended in the same way.

To fold away the speaker stands

1. Turn the SPEAKER STAND knob to the RELEASE position and press the top of the speaker to fold away the speaker stand.
2. When the speaker stand is folded away completely, turn the SPEAKER STAND knob to the LOCK position to fix the speaker stand.
3. The right speaker stand is folded away in the same way.

Location of Main Parts

Front View

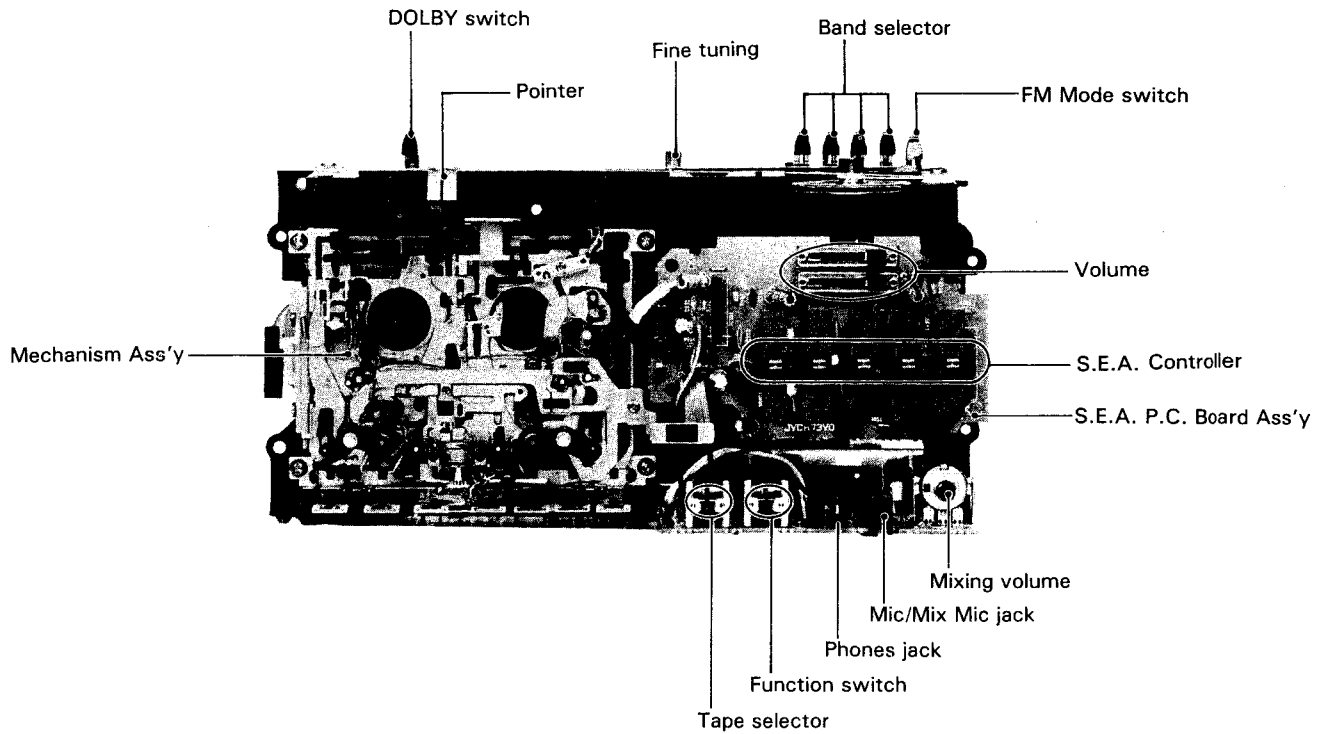


Fig. 10

Rear View

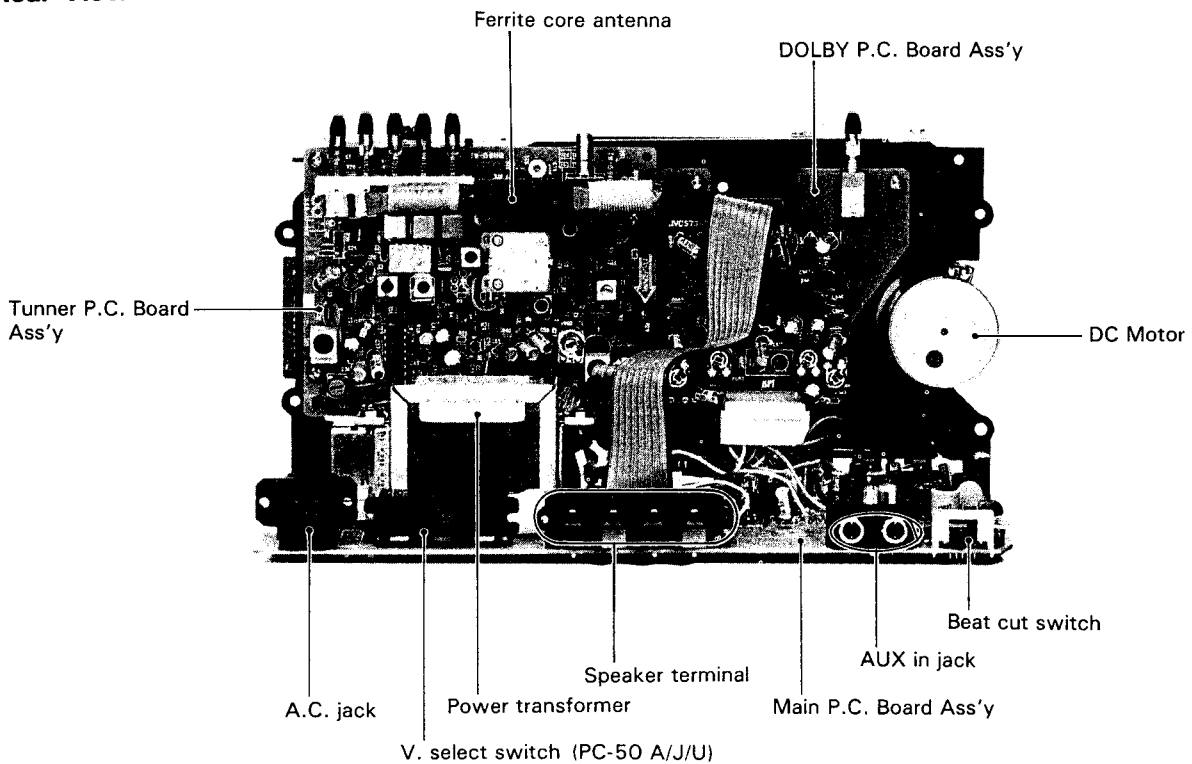


Fig. 11

Removal of Main Parts

Removal of rear cabinet

1. Remove the four screws (1) and two screws (6) from the rear cabinet.
2. Remove the antenna and battery wires.

Note: When the rear cabinet is difficult to remove, hit both sides of the cabinet with your hand and then remove it.

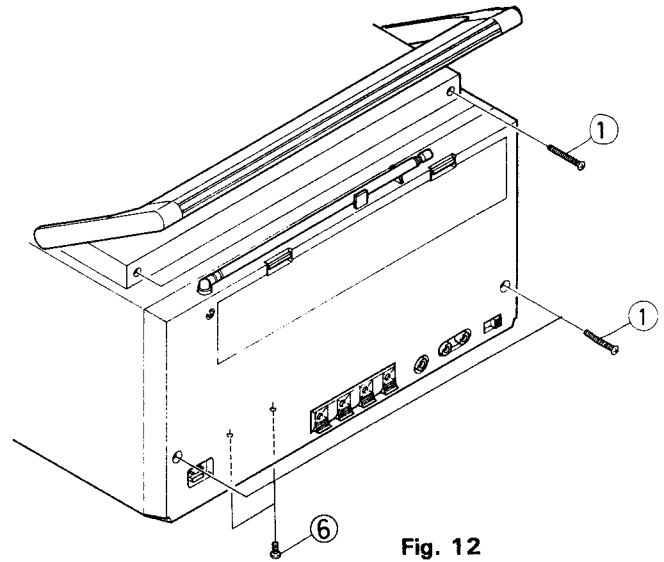


Fig. 12

Removal of front cabinet

1. Pull the fine tuning knob to remove it.
2. Remove the three screws (2).
3. Remove the lever cap, volume controls and mic volume control to remove it.
4. Open the cassette lid.
5. Remove the solder from the earth wires. (Fig. 16: screw (5).)

Note:

- Before removal, secure the mechanism control button to the panel surface of the front cover with a piece of cellophane tape and this will make it easier to attach the front cover during reassembly.
- Remove the slider (part # 30 in the disassembly diagram of the Enclosure) of the slider volume shaft before assembly.

Removal of tuner board

1. Remove the three screws (3).

Note: When reassembling the unit, turn the dial drums and variable capacitors fully clockwise.

Removal of DOLBY board

1. Remove the three screws (4).

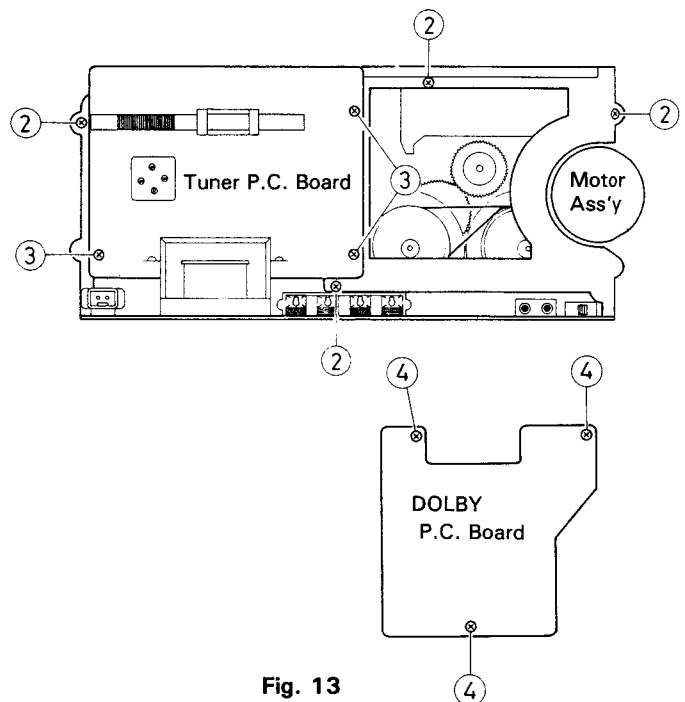


Fig. 13

Removal of S.E.A. board

1. Remove the S.E.A. P.C. Board disengaging it from four hooks.

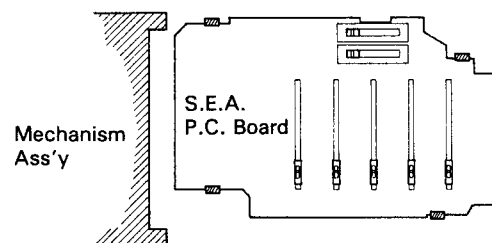


Fig. 14

Removal of mechanism Ass'y

1. Remove the four screws (4).

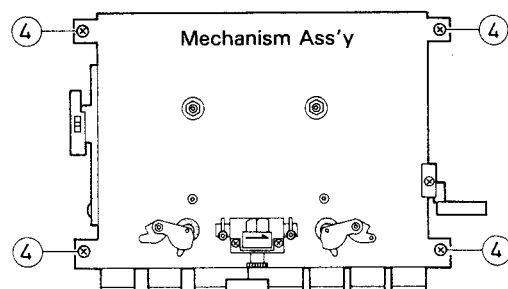


Fig. 15

Remove of main P.C. Board

1. Remove the one screw (5) and the two screws (6).

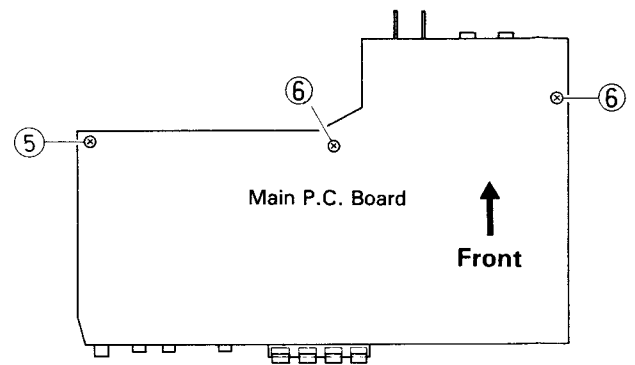


Fig. 16

How to Engage Dial Cord

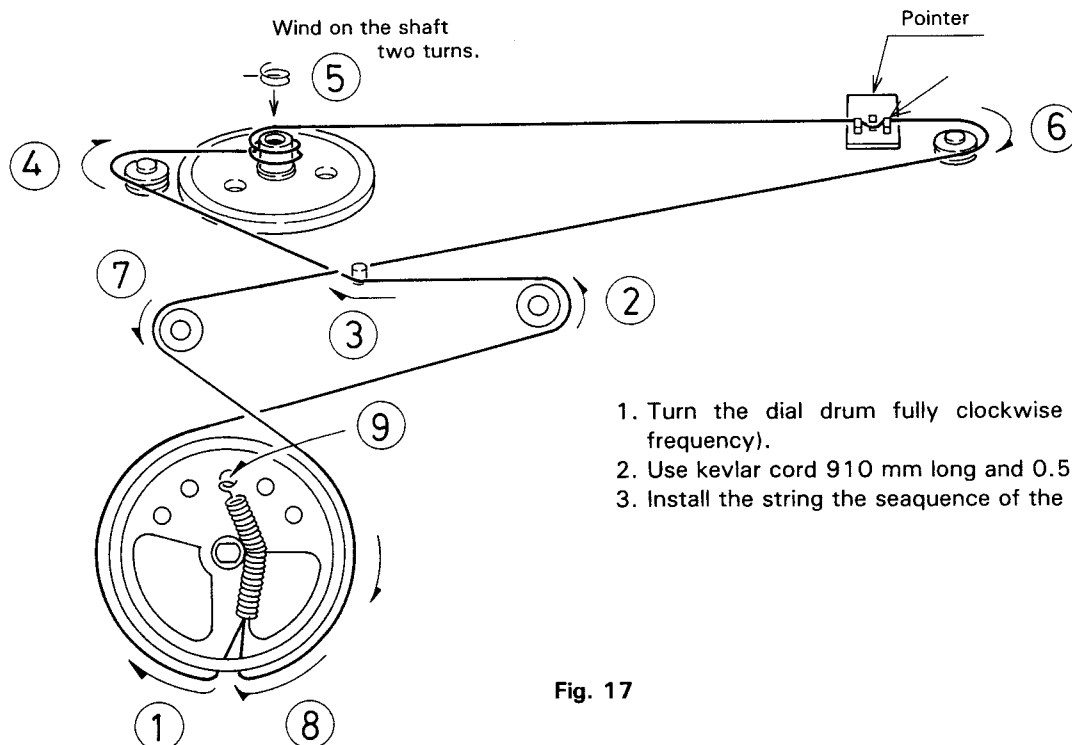
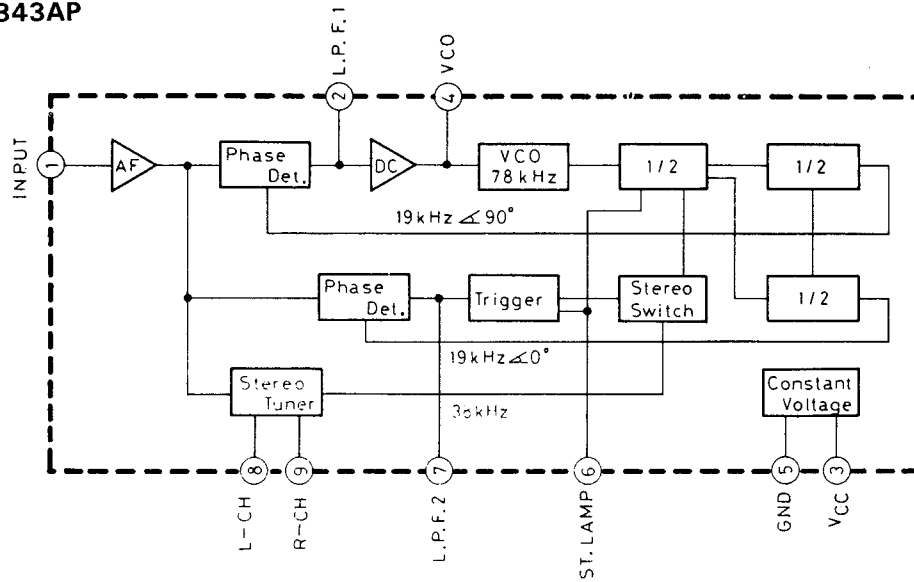


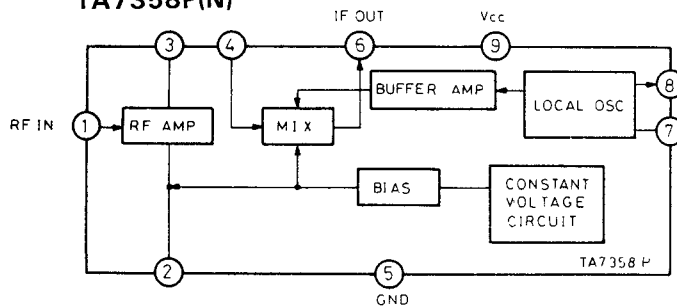
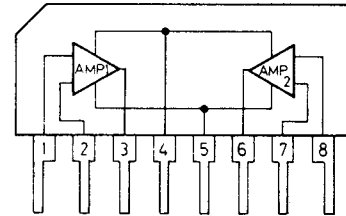
Fig. 17

Integrated Circuit

TA7343AP



TA7358P(N)

 μ PC1228H

M51164L

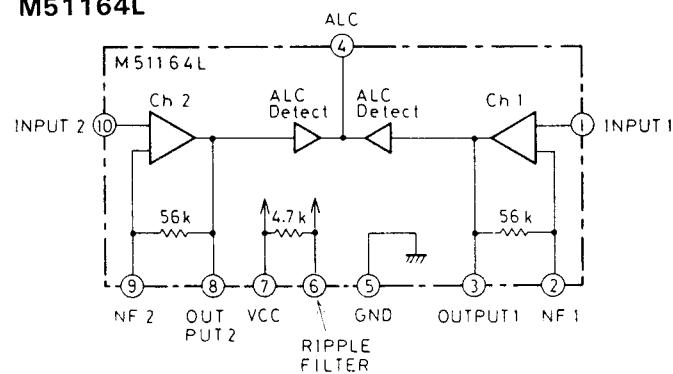
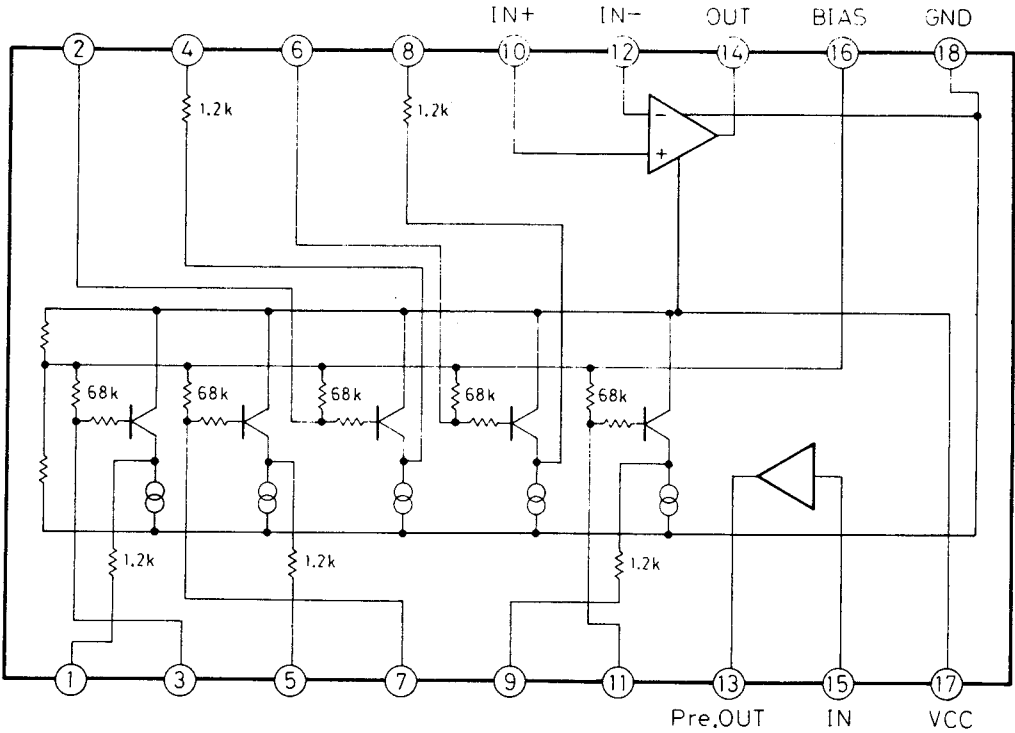
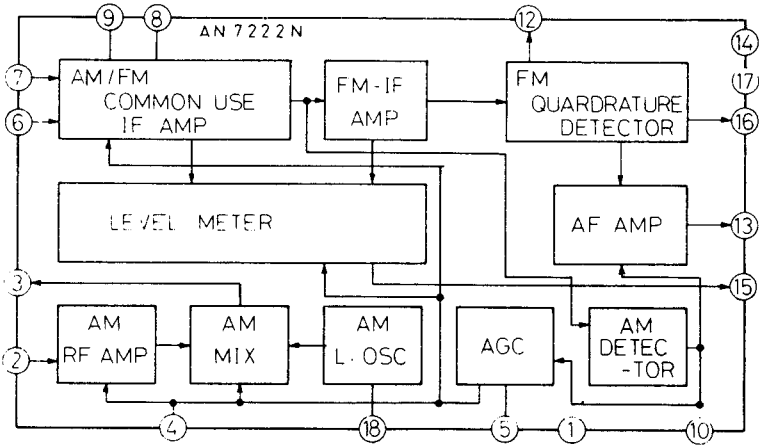


Fig. 18-A

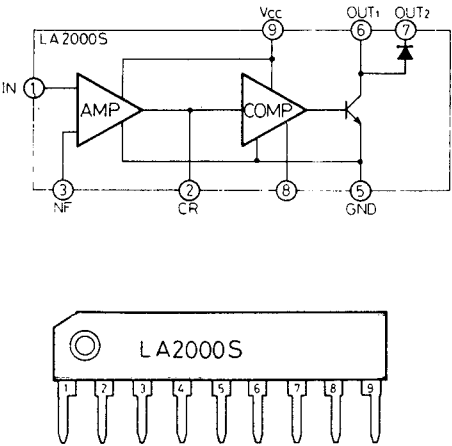
BA3812L



AN7222N



LA2000S



TA7282AP

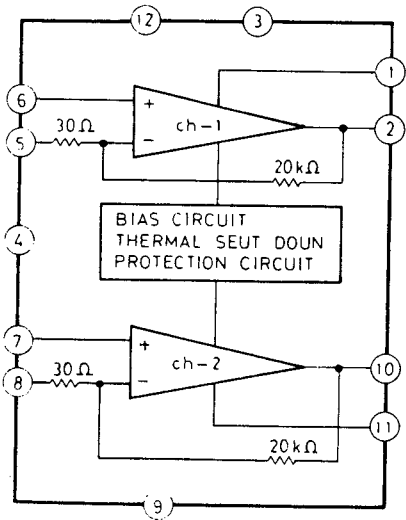


Fig. 18-B

Block Diagram

Amplifier Section

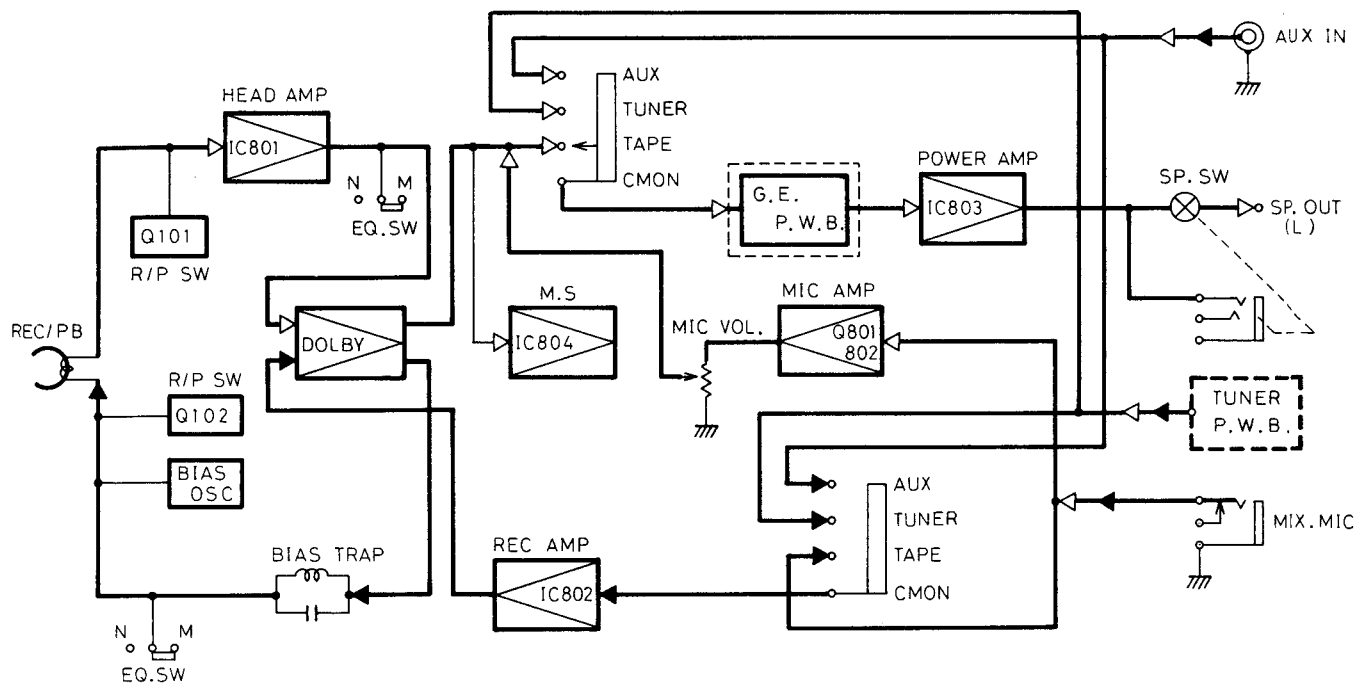


Fig. 19

Tuner Section

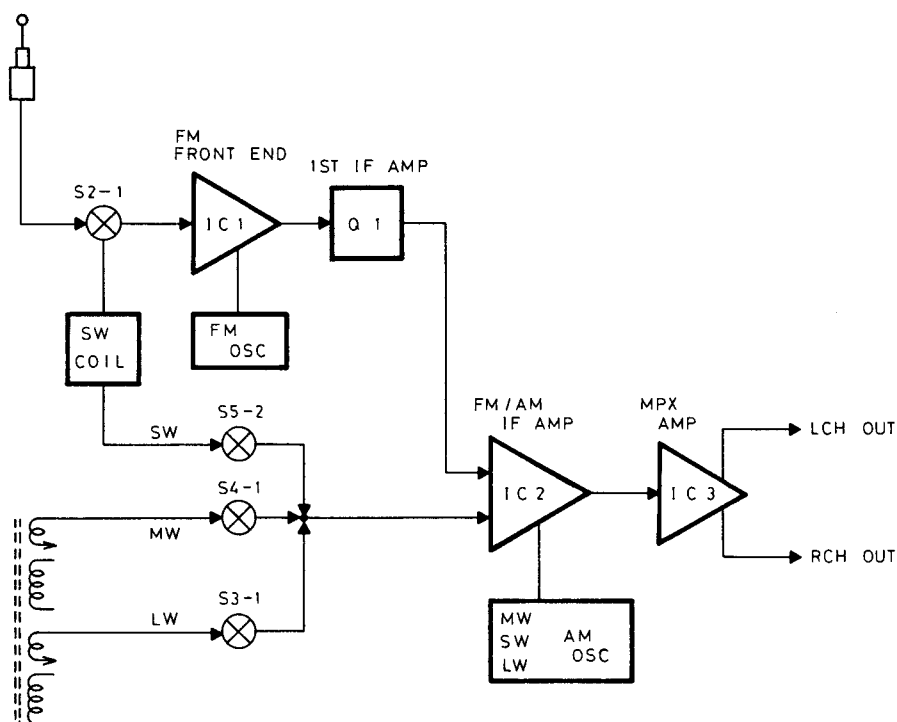


Fig. 20

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator
(range: 50—20 kHz and output 0 dB with impedance 600 Ω)
- 3) Attenuator
- 4) Standard tapes for REC/PB
Maxell UD — Normal tape (TS-5) or equivalent
- 5) Reference tapes for playback (JVC Test Tape)
TTT-658 (for head azimuth adj.)
VTT-656A (for motor speed, wow flutter adj.)

VTT-724 (for reference level 1 kHz)
VTT-736 (for playback frequency response)
TMT-6447 (for music scanning)
TMT-6448 (for music scanning)

- 6) Resistors
600 Ω (for attenuator matching)

2. Mechanical adjustment

Torque testing cassette gauge

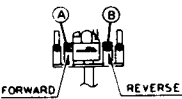
3. Tuner section adjustment

SSG (sweep signal generator)

[II] Mechanical adjustment

Adjustment procedure of cassette mechanism

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656A test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor in the DC	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656A test tape. Check to see if the reading of the meter is within 0.08% (WRMS).		0.45% (RMS)	If the reading becomes moving value even if conforming to the standard, a reclaim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape CTG-N for the checking, or remove the cassette cover and use a torque gauge.		40—70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference, etc.
Adjusting record/playback head position  Forward Reverse	1. Connect an electronic voltmeter to LINE OUT terminals. 2. Play back the VTT-658 test tape. 3. Adjust the head angle with the screw (A) or (B) until the reading of the electronic voltmeter becomes maximum for both directions. 4. After adjusting, set the screw with screw bond.	Screw (A) and (B)	Maximum	

Parts Arrangement for Alignment

Main P.C. Board

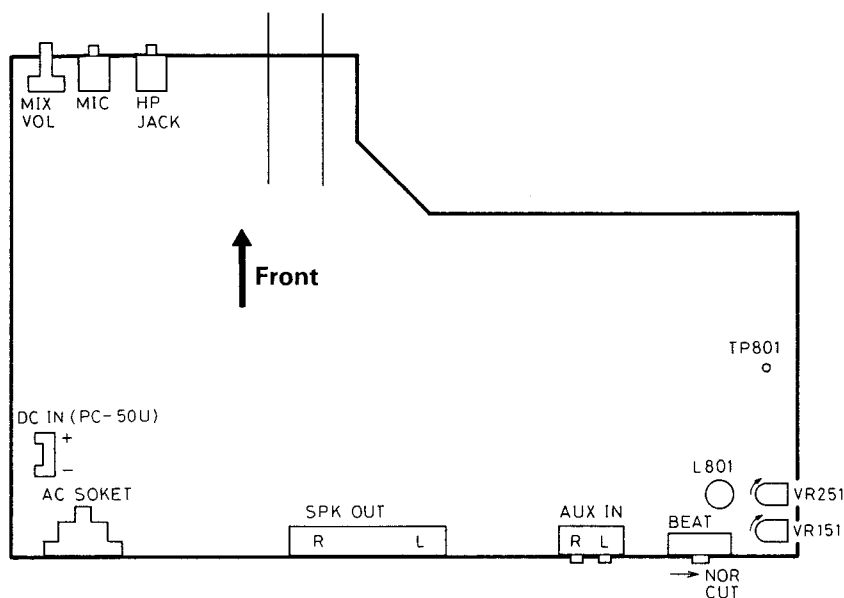


Fig. 21

DOLBY P.C. Board

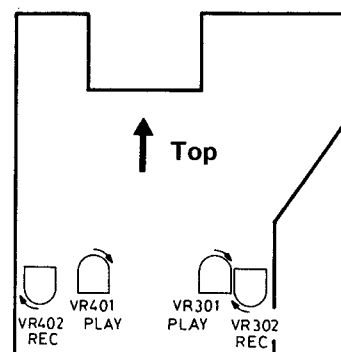
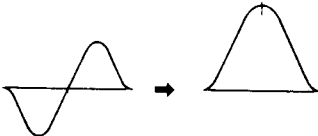


Fig. 22

Item	Description
Cassette Amp. section	
Power supply	DC 12 V
Output measuring point	Across SPK (3 ohms)
Positioning	Horizontal
Adjustment	
PB level check Direction: FWD, REV	VTT-724 (1 kHz), -21 dBs at TP301, TP401, L/R diff. within 2.5 dB and within 0 to -2 dB when switched to METAL.
PB freq. response check Direction: FWD, REV	VTT-736, 1 kHz/125 Hz 2 ± 3 dB 1 kHz/ 8 kHz 0 ± 2 dB
Bias freq. adjustment	Connect counter to Erase Head, then adjust L801 so that bias frequency is 67.0 ± 0.3 kHz. In this case, set "BEAT" switch to "1" (NORMAL).
REC/PB freq. response adjustment Direction: FWD Tape: NORMAL, UD	With ref. -28 dB input, adjust VR151 (L-ch) and VR251 (R-ch) so that deviation between 1 kHz and 10 kHz is 0 ± 0.5 dB. After adjustment, check this level in REV direction. At this time, set "BEAT" switch to "1" (NORMAL).
REC/PB sensitivity adjustment Direction: FWD Tape: NORMAL, UD	Record ref. -28 dB input signal at LINE IN and play it back. Then, adjust VR302 (L-ch) and VR402 (R-ch) so that PB output at TP301, 401 is REC output. After adjustment, check this level in REV direction.
REC/PB distortion rate check Direction: FWD, REV	Record specified input signal of 1 kHz and play it back. Then, check that distortion rate is within 4%.
DOLBY check 1. NR effect 2. Bias leak 3. REC/PB freq. response at DOLBY ON Direction: FWD, REV Tape: NORMAL, UD	Check the difference in noise level between DOLBY ON and OFF. Less than -40 dBs, LINE OUT It should meet the following response at LINE OUT.

Tuner Alignment

BASIC CONDITIONS

POWER SOURCE OF THE RECEIVER	DC 12 V, AC 240/220/110 V
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.39 V)/3 Ω
MODULATION OF SSG	400 Hz. 30%
Item	Description
1. AM IF ALIGNMENT 1-1 Conditions of the receiver. (1) Power source: (2) Function switch position: (3) Band select switch: (4) Volume control: (5) Tone control: (6) Variable capacitor: 1-2 Connection of Sweeper and the receiver (1) Tuner input: (2) Tuner output: 1-3 Aligning position: 1-4 Alignment (Waveform): 	DC 7 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.) RADIO AM Minimum gain position Center position (BASS, TREBLE) Near the minimum capacity position where no signal come in. Positive side to TP1 Positive side to TP2 Negative side to TP3 T3, 4 Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT 2-1 Conditions of the receiver (1) Power source: (2) Function switch position: (3) Band select switch: (4) Volume control: (5) S.E.A. control: (6) Variable capacitor: 2-2 Connection of Sweeper and the receiver (1) Tuner input: (2) Tuner output: NOTE a) Attach a capacitor (30 pF) and resistor (30 k Ω) to the positive side cable which shall be led from Sweeper input. b) Attach a resistor (100 k Ω) in series to the positive side cable which shall be led from Sweeper output. 2-3 Aligning position: 2-4 Alignment (Waveform):	Same as mentioned in item 1-1 RADIO FM Minimum gain position Center position Near the minimum capacity position where no signal come in. Positive side to IC1 body Positive side to TP2 Negative side to TP3 a) IF Waveform: T1 b) Discriminate Waveform: T2 ("S" curve waveform) Adjust the discriminate coil (T2) so that "S" curve waveform may be changed to IF waveform as shown in following figure.  After above, adjust T1 so that max. sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper. Adjust the discriminate T2 again so that above symmetrical IF waveform may be changed to balanced "S" curve waveform.

Discriminate Waveform:

Item			Description		
3. AM RF ALIGNMENT					
3-1 Conditions of the receiver.			Same as mentioned in item 1-1. RADIO 50 mW Center position Refer the following list shown in item 3-4.		
(1) Power source:					
(2) Function switch position:					
(3) Volume control:					
(4) S.E.A. control:					
(5) Variable capacitor:					
3-2 Conditions of SSG.			Refer the basic condition Refer the following list shown in item 3-4. Approx. 50 mW Speaker terminals		
(1) Modulation:					
(2) Frequency:					
(3) Output level of the attenuator in SSG:					
3-3 Power output measuring position:					
3-4 Alignment:					
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	MW	Loop Antenna	520 kHz	Max. capacity	L6
2			1,650 kHz	Min. capacity	TC-3
3			Ajust the above aligning position (L6 & TC-3) repeatedly so that the tuner can be received above frequency range (band width).		
4			620 kHz	to be received 620 kHz	L3
5			1,400 kHz	to be received 1,400 kHz	TC-4
6			Adjust the above aligning position (L3 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity.		
7	LW	Loop Antenna	145 kHz	Max. capacity	L7
8			360 kHz	Min. capacity	TC-7
9			Adjust the above aligning position (L7 & TC-7) repeatedly so that the tuner can be received above frequency range (band width)		
10			160 kHz	to be received 160 kHz	L4
11			350 kHz	to be received 350 kHz	TC-5
12			Adjust the above aligning position (L4 & TC-5) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW	Dummy Antenna	5.8 MHz	Max. capacity	L8
14			18.6 MHz	Min. capacity	TC-8
15			Adjust the above aligning position (L8 & TC-8) repeatedly so that the tuner can be received above frequency range (band width).		
16			6.0 MHz	to be received 6.0 MHz	L5
17			18.0 MHz	to be received 18.0 MHz	TC-6
18			Adjust the above aligning position (L5 & TC-6) repeatedly so that the tuner can be obtained the best sensitivity.		
Item			Description		
4. FM RF ALIGNMENT					
4-1 Conditions of the receiver.			Same as mentioned in item 1-1. RADIO FM 50 mW Center position Refer the following list shown in item 4-3.		
(1) Power source:					
(2) Function switch position:					
(3) Band select switch:					
(4) Volume control:					
(5) S.E.A. control:					
(6) Variable capacitor:					

Item			Description		
4-2 Condition of FM SSG. (1) Modulation: (2) Frequency: (3) Output level of the attenuator in FM SSG:			Refer the basic condition Refer the following list shown in item 4-3. The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.		
4-3 Alignment:					
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	FM	Dummy Antenna	87.5 MHz	Max. capacity	L2
2			109.0 MHz PC-50 B/E 108.3 MHz PC-50 G	Min. capacity	TC-1
3			Ajust the above aligning position (L2 & TC-1) repeatedly so that the tuner can be received above frequency range (band width).		
4			90 MHz	to be received 90 MHz	L1
5			106 MHz	to be received 106 MHz	TC-2
6			Adjust the above aligning position (L1 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		

FM MPX Alignment

A. 19 kHz Alignment (Regular Method)

1. Connect a frequency counter to the test point TP7 (earth = TP6).
2. Supply the monaural signal (98 MHz, 60 dB) across the test points TP1 and TP2.
3. Adjust the variable resistor VR2 so that the frequency becomes $19 \text{ kHz} \pm 100 \text{ Hz}$.

B. 19 kHz Alignment (Simplified Method)

1. Tune to an FM stereo broadcast.
2. Set the variable resistor VR2 to the ST indicator ON.

Parts Arrangement for Alignment

Tuner P.C. Board

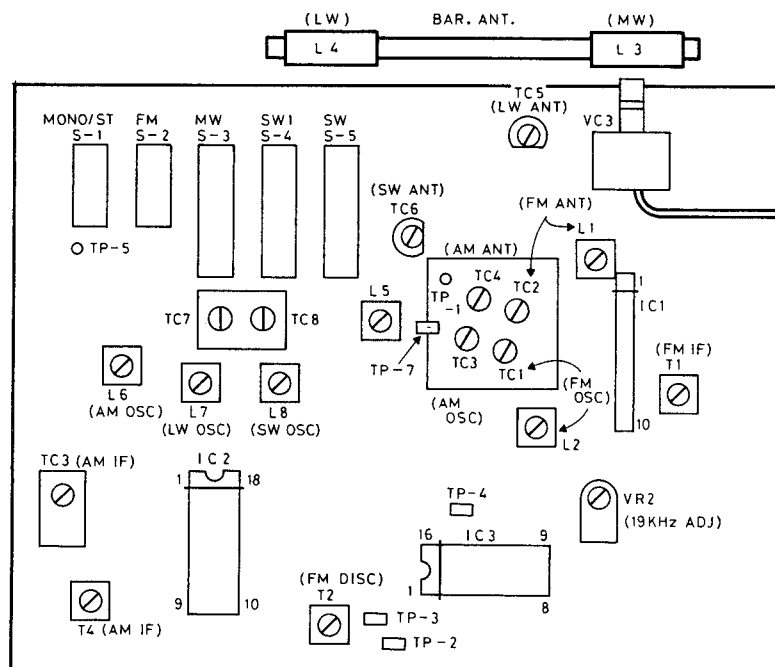


Fig. 23

Axial Type Ceramic Capacitor

Standard color code for Axial type ceramic capacitor.



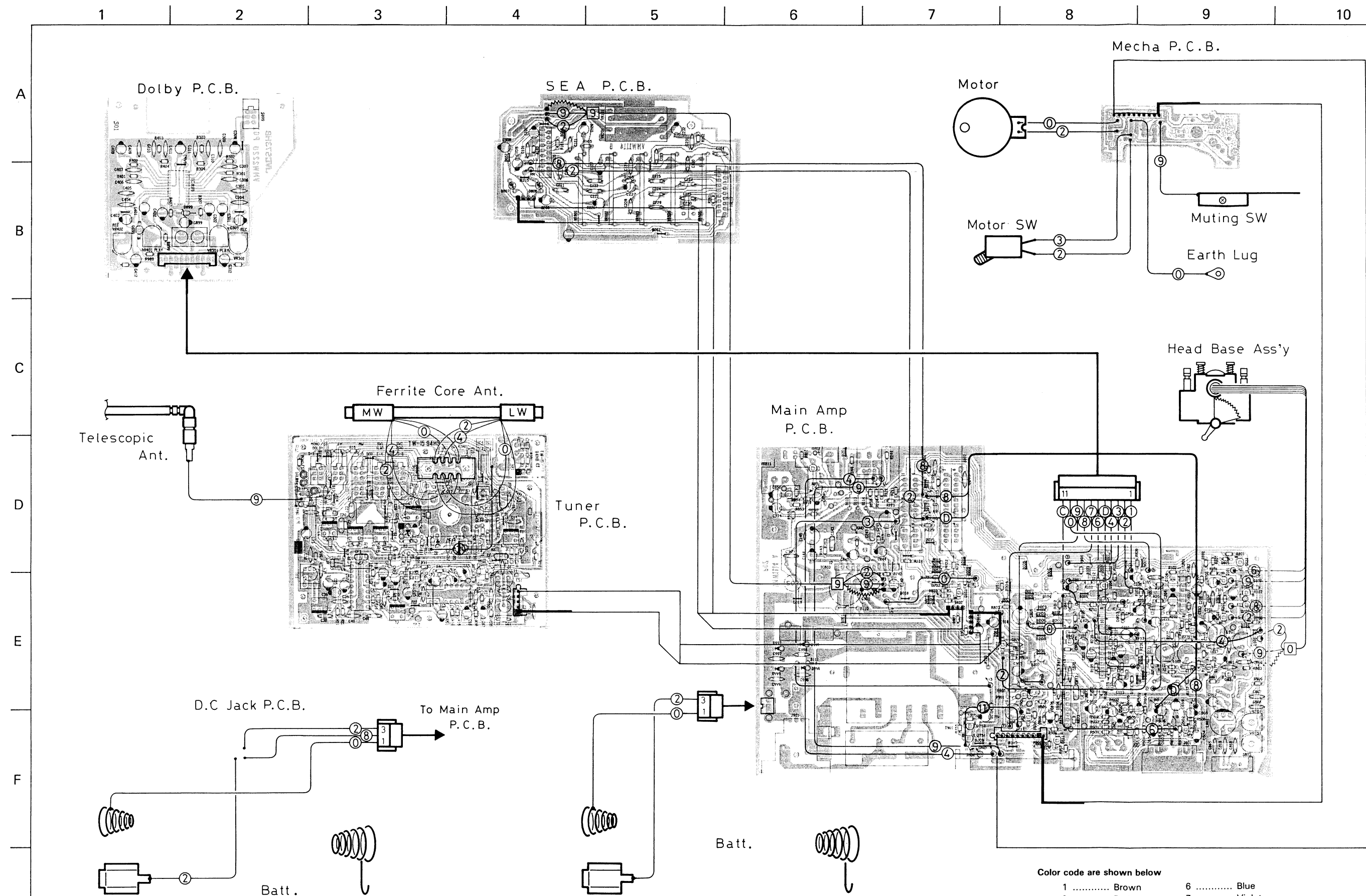
Color code.	1st. Color line. Figure.	2nd. Color line. Figure.	3rd. Color line. Multiplier.	4th. Color line. Allowance.	5th. Color line. Temp. Chara.	Color body.
Black	0	0	$\times 10^0$	$\pm 20\%(M)$	CH	Light green DC. 50V 1H.
Brown	1	1	$\times 10^1$		Y (V)	
Red	2	2	$\times 10^2$			
Orange	3	3	$\times 10^3$			
Yellow	4	4	$\times 10^4$		RH	
Green	5	5	$\times 10^5$			
Blue	6	6	$\times 10^6$			Pink DC. 16V 1C
Violet	7	7			UJ	
Gray	8	8		$30\%(N)$	X	
White	9	9			SL	
Gold			$\times 10^{-1}$	$\pm 5\%(J)$		
Silver			$\times 10^{-2}$	$\pm 10\%(K)$	B	

Parts Number.

Taping parts.

Temp. Character.	Cera capa								DC. Voltage	Allowance.
SL	Q	C	S	B	1	H	J,M,K	-□□□ Y	1H(50V)	1-1.8pF : M, 2.2-8.2pF : K 10-68pF : J only.
B	Q	C	B	B	1	H	K	-□□□ Y	"	K only
X	Q	C	X	B	1	C	M	-□□□ Y	1C(16V)	M only
Y	Q	C	V	B	1	C	N,N	-□□□ Y	"	M & N only.
F	Q	C	F	B	1	E	Z	-□□□ Y	1E(25V)	Z only
↓ ↓ ↓										
CH,RH,UJ	Q	C	T	3	0	CH,RH,UJ	-□□□ Y	1H(50V)	1-1.8pF : M, 2.2-8.2pF : K 10-39pF : J only.	

Wiring Connections

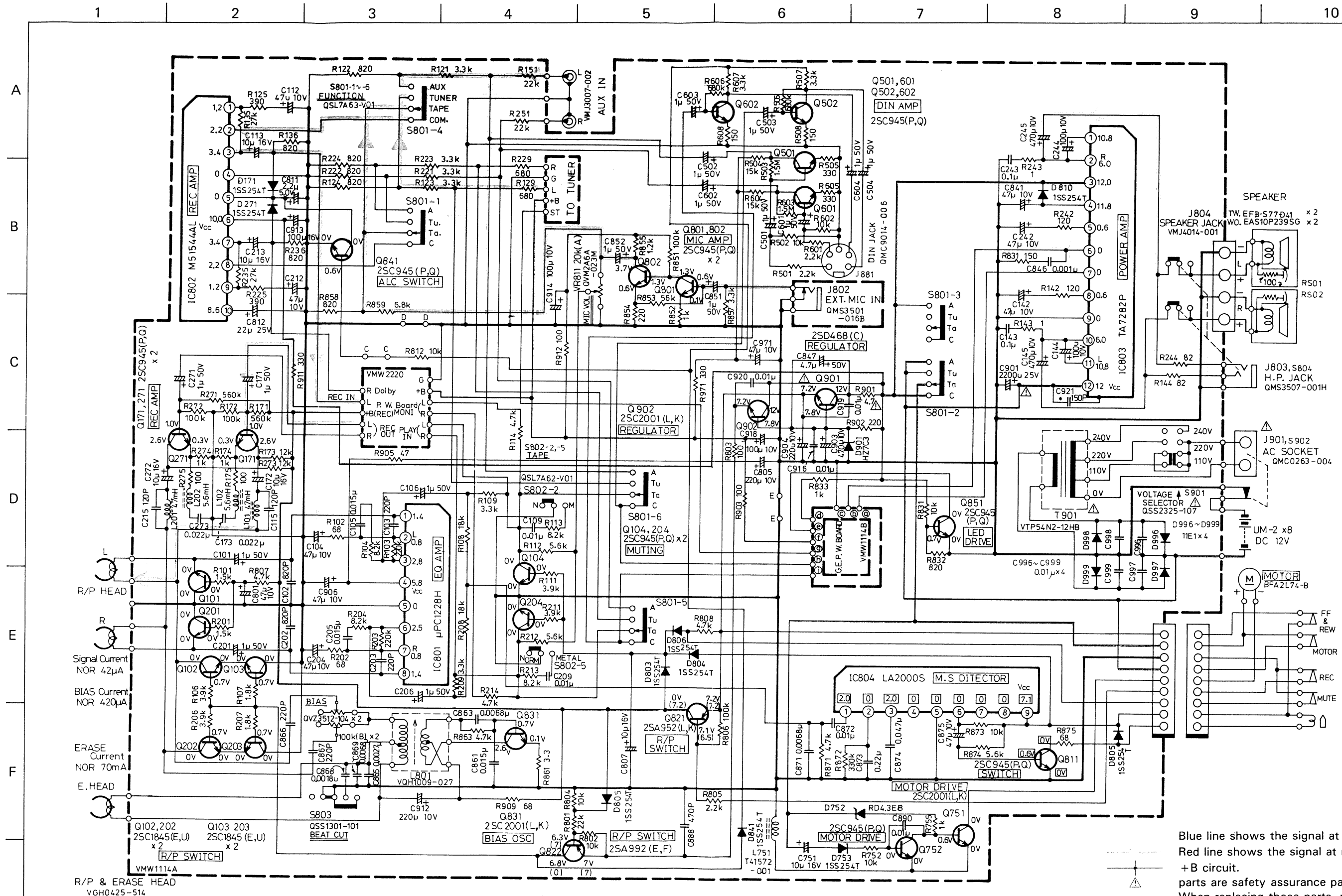


Color code are shown below

1	Brown	6	Blue
2	Red	7	Violet
3	Orange	8	Grey
4	Yellow	9	White
5	Green	0	Black

Fig. 24

Standard Schematic Diagram of PC-50 (Amplifier Circuit)

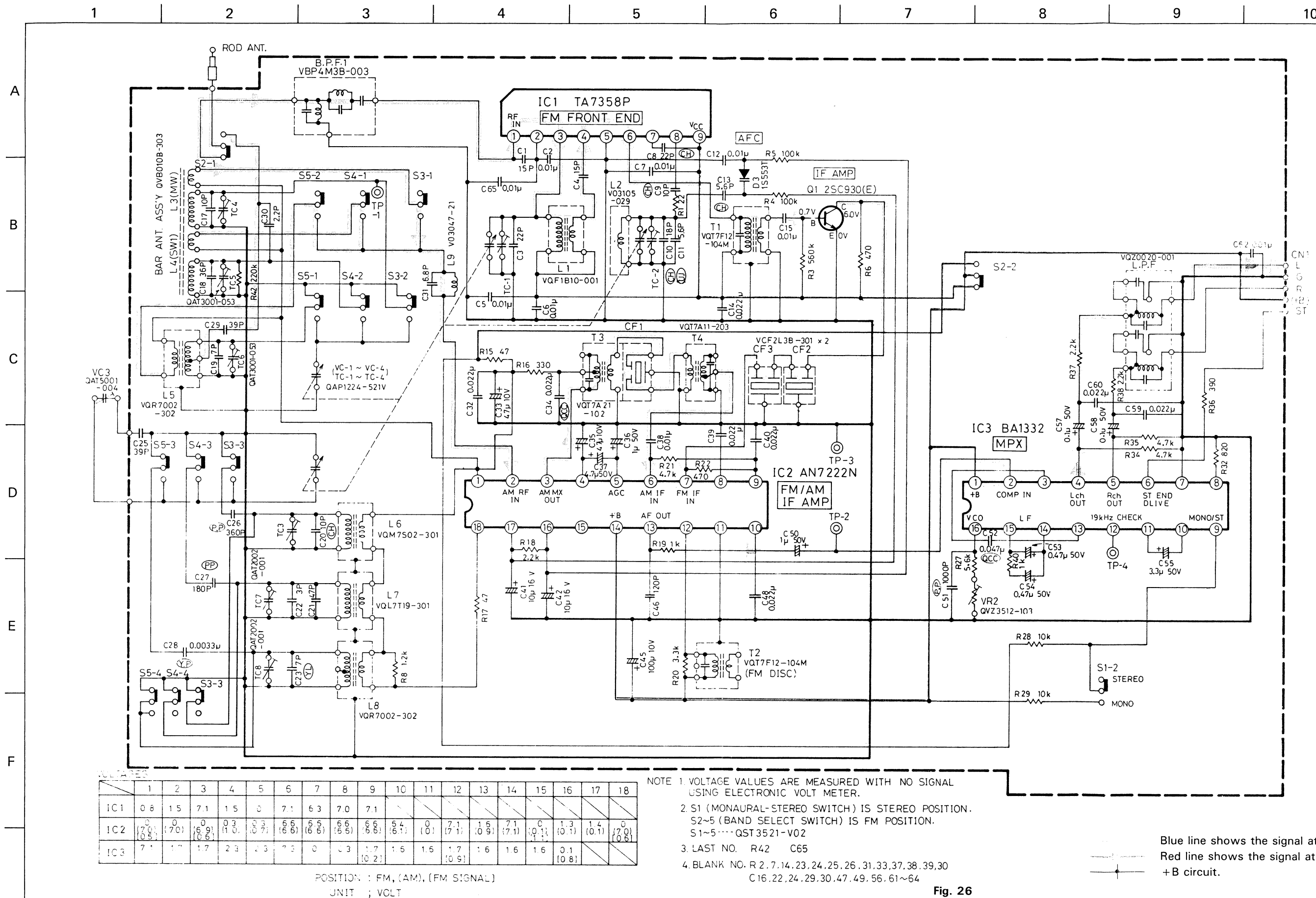


Blue line shows the signal at playback.
Red line shows the signal at recording.
+ B circuit.

parts are safety assurance parts.
When replacing those parts, make
sure to use the specified one.

Fig. 25

Standard Schematic Diagram of PC-50 (Tuner Circuit)



Standard Schematic Diagram of PC-50 (DOLBY Circuit)

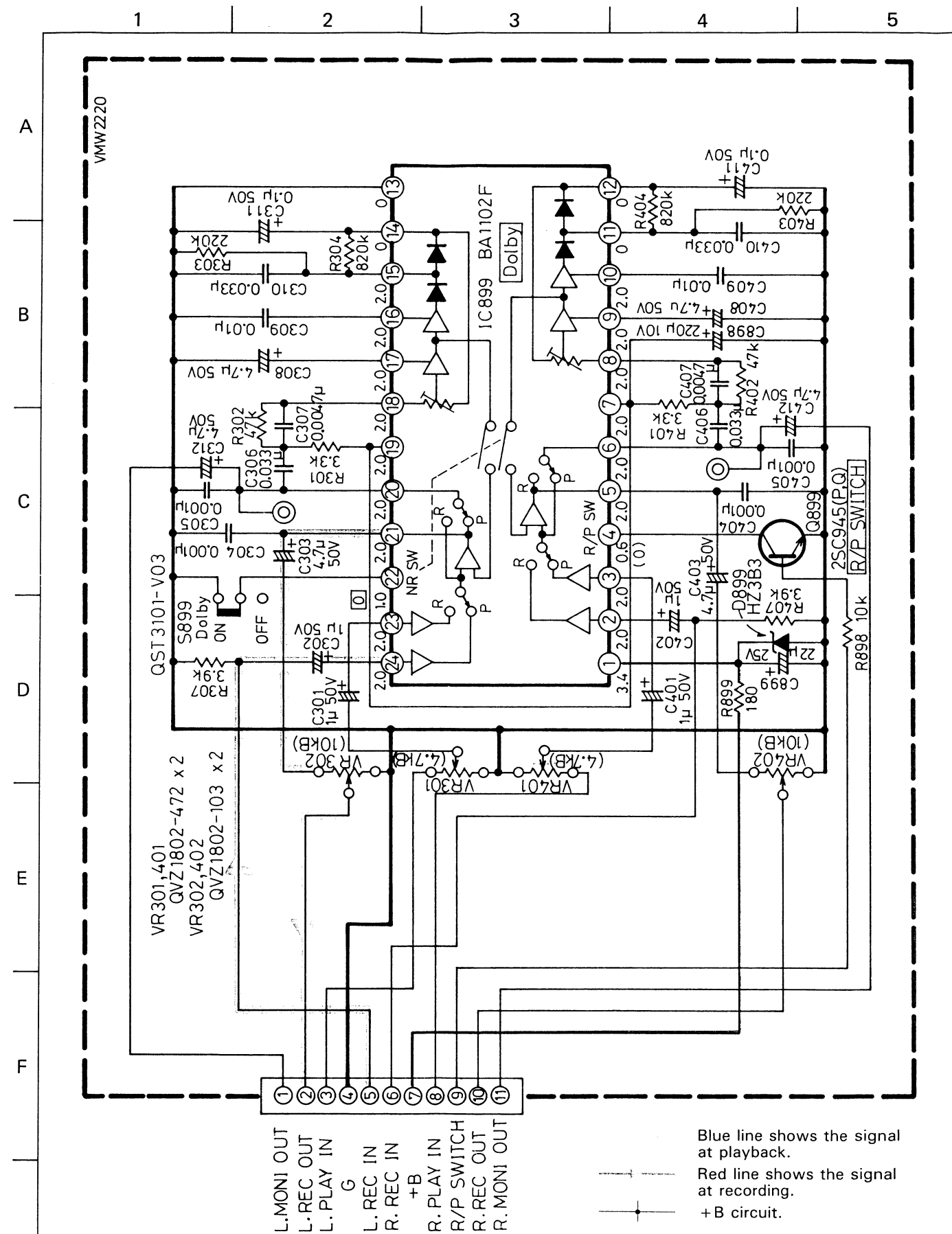


Fig. 27

Standard Schematic Diagram of PC-50 (S.E.A. Circuit)

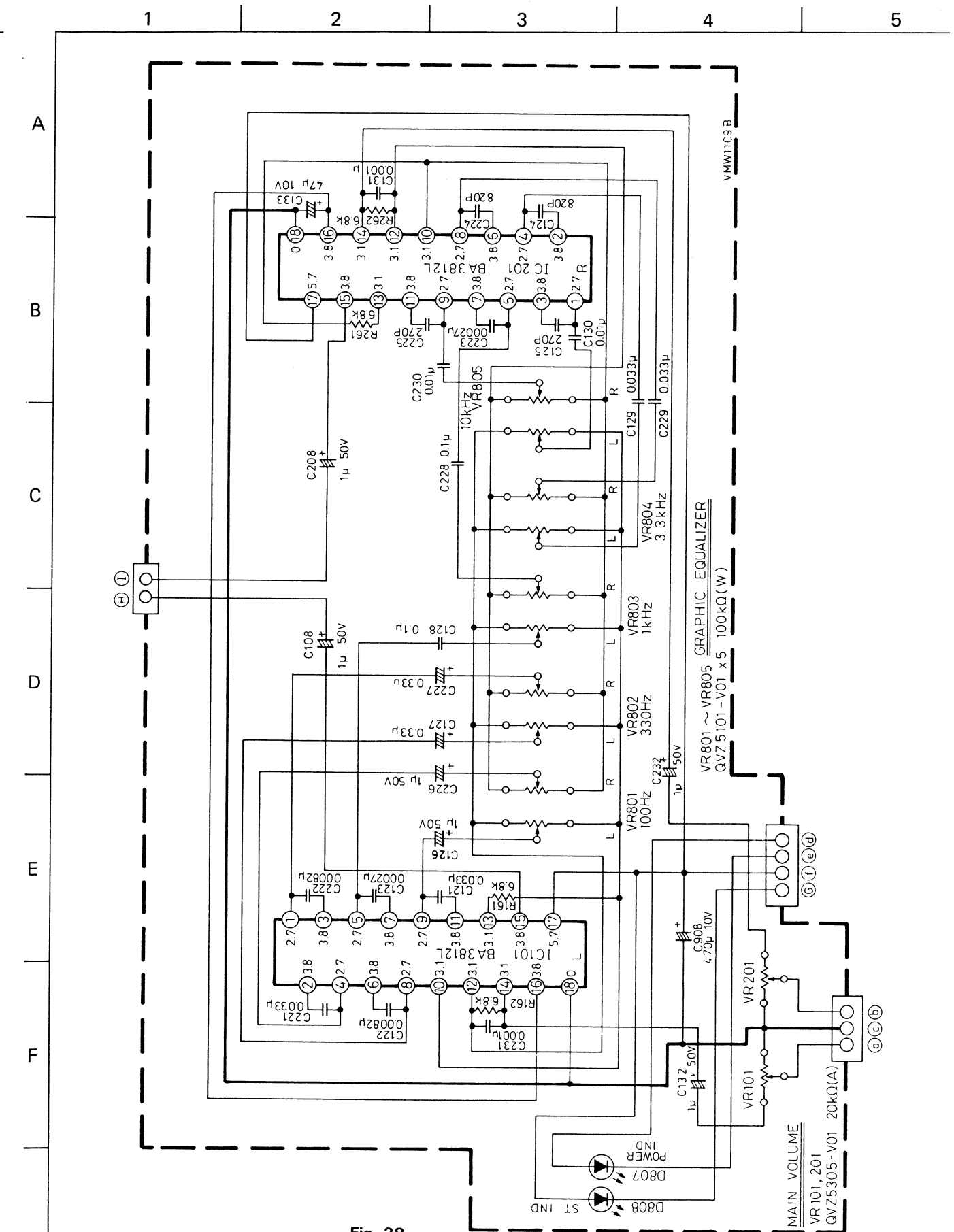


Fig. 28

Exploded View of Enclosure Assembly and Electrical Parts

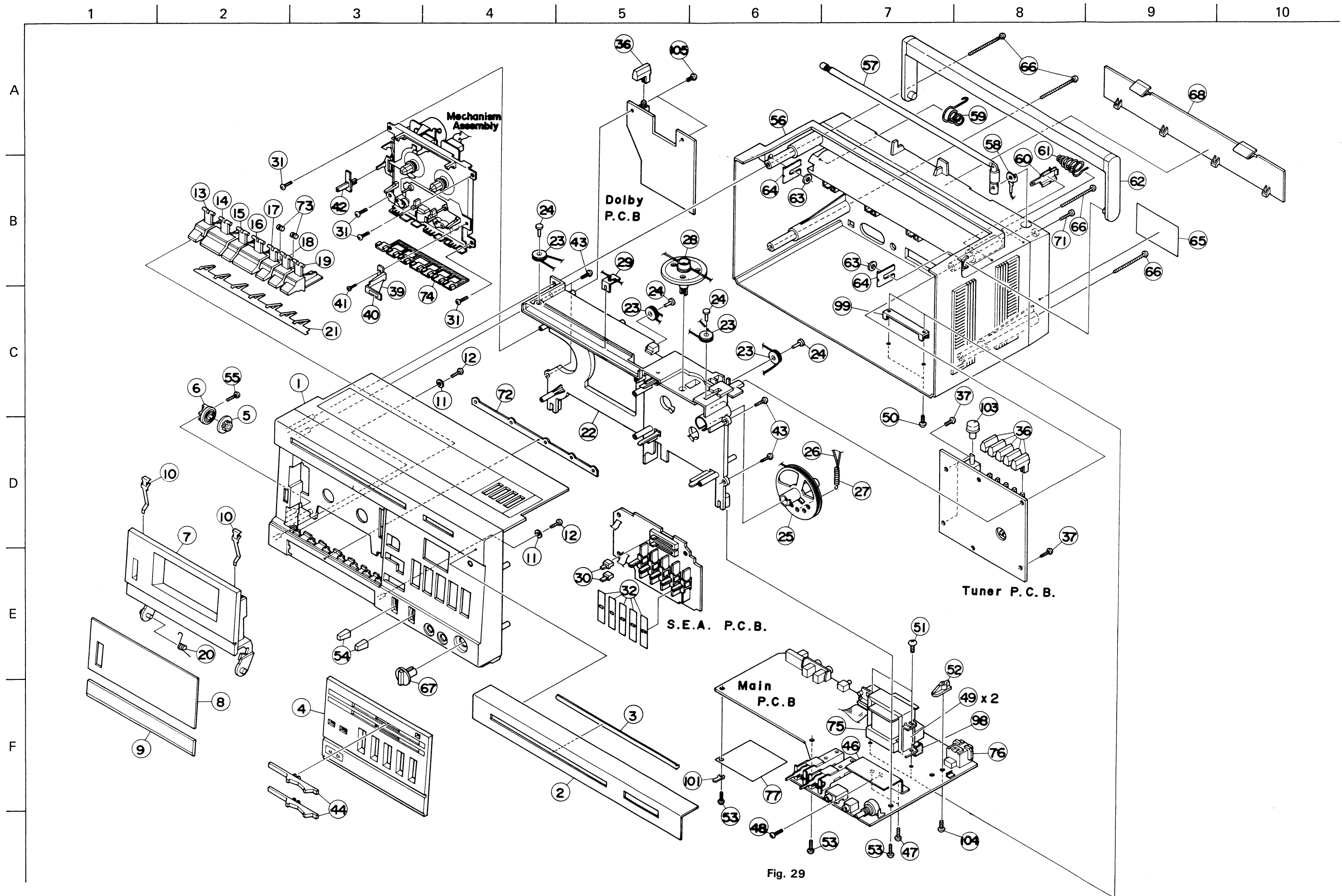
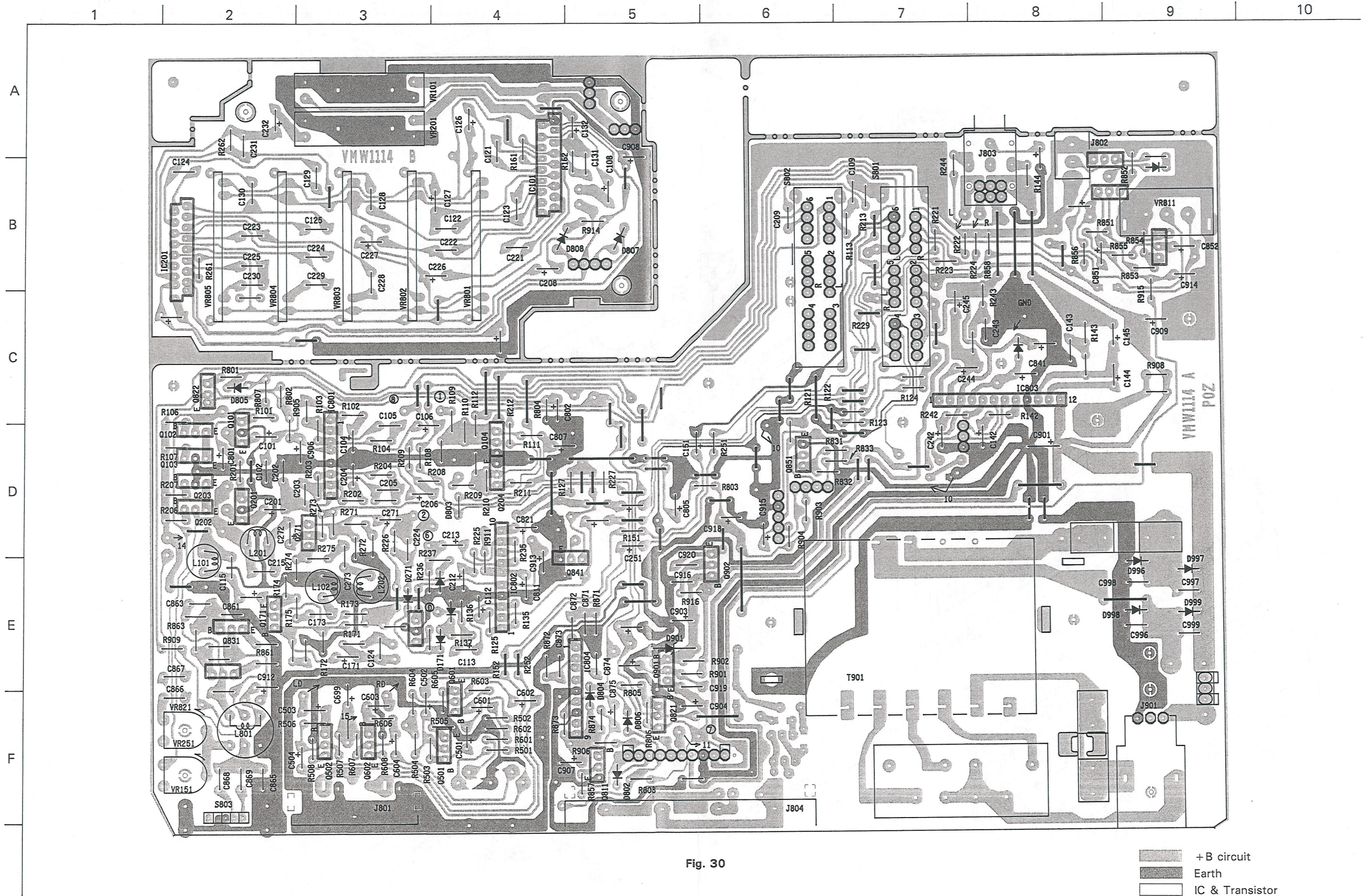
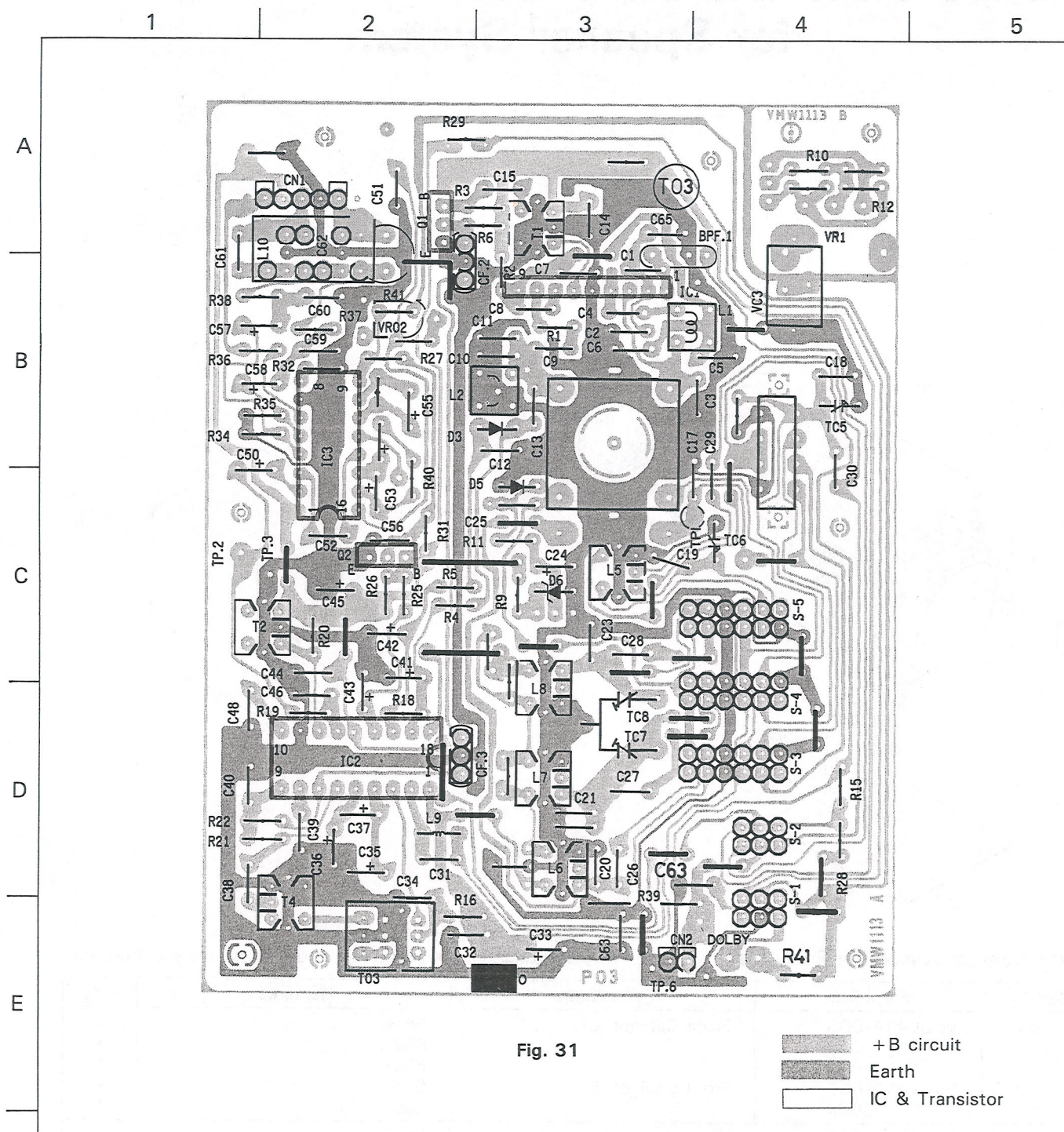


Fig. 29

Main S.E.A. P.C. Board Parts (Pattern Side)



Tuner P.C. Board Parts and Parts List



Tuner P.C. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
IC02	AN7222N	I.C.		1
IC03	BA1332	"		1
IC01	TA7358P (N)	"		1
Q01	2SC930 (E)	Transistor		1
D03	1S553T	Vari. Capa. Diode		1
VR02	QVZ3512-103	V Resistor		1
S01	QST3521-V02	Push Switch		1
L03,04	VQB010B-304	Bar Antenna		1
L01	VQF1B12-001	RF Coil		1
L07	VQL7T19-301	OSC Coil		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
L06	VQM7U01-301	OSC Coil		1
L05	VQR7002-302	RF Coil		1
L08	VQS7U01-303	OSC Coil		1
L.P.F, L11	VQZ0020-001	Low Pass Filter		1
L09	V03047-21	Antenna Coil		1
L02	V03105-029	OSC Coil		1
R17	QRD141J-680	Carbon Resistor		1
R19,40	QRD161J-102	"		2
R28,29	" -103	"		2
R04,05	" -104	"		2
R01	" -220	"		1
R18,37,38	" -222	"		3
R16	" -331	"		1
R36	" -391	"		1
R20	" -392	"		1
R15	" -470	"		1
R06,22	" -471	"		2
R21,34,35	" -472	"		3
R27	" -562	"		1
R03	" -564	"		1
R32	" -821	"		1
C46	QCB1HK-121	C. Capacitor		1
C34,59,60	QCC11EM-223	"		3
C52	" -473	"		1
C02,07	QCF11EZ-103	"		2
C05,06,12,15 38	QCF11HP-103	"		7
62,65	" -223	"		5
C14,32,39,40,48	QCS11HJ-100	"		1
C17	" -150	"		1
C04	" -151	"		1
C61	" -151	"		1
C03	" -220	"		1
C22	" -3R0	"		1
C18,25,29	" -390	"		3
C21	" -470	"		1
C19	" -7R0	"		1
C31	QCS11HK-6R8	"		1
C09	QCT05CH-100	"		1
C08,10	" -180	"		2
C13	" -5R6	"		1
C20	QCT05UJ-100	"		1
C11	" -5R6	"		1
C23	QCT05YL-7R0	"		1
C28	QCY41HK-332	"		1
C45	QET41AR-107	E Capacitor		1
C33,35	" -476	"		2
C41,42	QET41CR-106	"		2
C57,58	QCT41HR-104	"		2
C36	" -105	"		1
C55	" -335	"		1
C50,53,54	" -474	"		3
C37	" -475	"		1
C51	QFP42AJ-102	PP Capacitor		1
C27	" -181	"		1
C26	" -361	"		1
CF02,03	VCF2L3B-301	Ceramic Filter		2
TC07,08	QAT2002-001	T Capacitor		1
TC05,06	QAT3001-053	"		2
T04	VQT7A11-203	I.F. Transformer		1
T03	VQT7A21-102	Cer. Filter		1
T01,02	VQT7F12-104M	I.F. Transformer		2
VC01	QAP1224-521V	V. Capacitor		1
VC3	QAT5001-004	T. Capacitor		1
BT01	VBP4M3B-003	B. Pass Filter		1
1	VYH4369-003	Shield	For T02 IFT	1

DOLBY P.C. Board Parts and Parts List

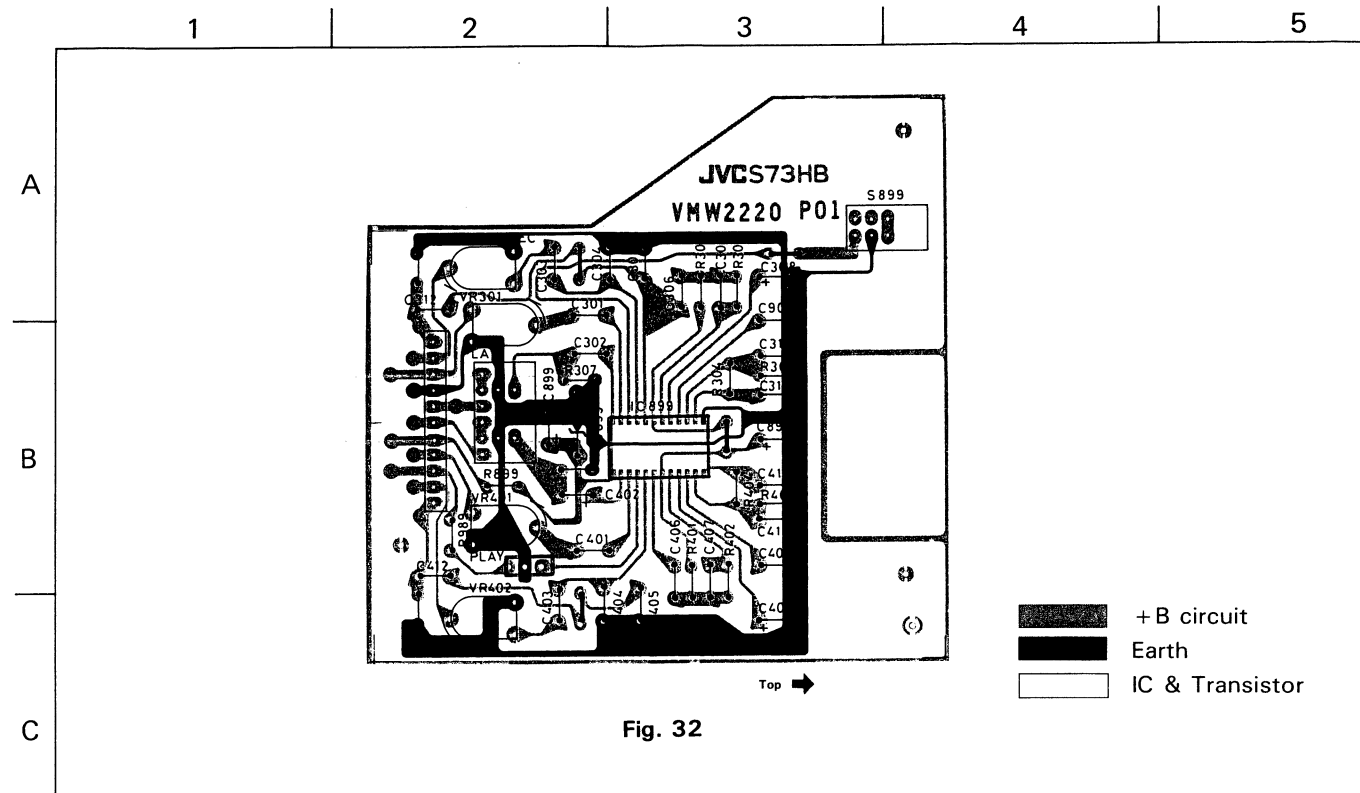


Fig. 32

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

DOLBY P.C. Board Parts List

△	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	IC899	BA1102F	I.C.		1
	Q899	2SC945(P,Q)	TRANSISTOR		1
	D899	HZ3B3	ZENNER DIODE		1
	VR302,VR402	QVZ1802-103	V.RESISTOR		2
	VR301,VR401	QVZ1802-472	V RESISTOR		2
	S899	QST3101-V08	PUSH SWITCH		1
	R898	QRD161J-103	CARBON RESISTOR		1
	R899	QRD161J-181	CARBON RESISTOR		1
	R303 ,R403	QRD161J-224	CARBON RESISTOR		2
	R301 ,R302	QRD161J-332	CARBON RESISTOR		2
	R306 ,R406	QRD161J-392	CARBON RESISTOR		2
	R302 ,R402	QRD161J-473	CARBON RESISTOR		2
	R304 ,R404	QRD161J-824	CARBON RESISTOR		2
	C309 ,C409	QCC11EM-103	C.CAPACITOR		2
	C306 ,C310	QCC11EM-333	C.CAPACITOR		4
	C406 ,C410	QCY41HK-102	C.CAPACITOR		6
	C304 ,C305				
	C313 ,C404				
	C405 ,C413				
	C307 ,C407	QCY41HK-472	C.CAPACITOR		2
	C898	QET41AR-227	E CAPACITOR		1
	C899	QET41ER-226	E CAPACITOR		1
	C311 ,C411	QET41HR-104	E CAPACITOR		2
	C301 ,C302	QET41HR-105	E.CAPACITOR		4
	C401 ,C402				
	C303 ,C308	QET41HR-475	E.CAPACITOR		6
	C312 ,C403				
	C408 ,C412				

Exploded View and Parts List for Speaker System

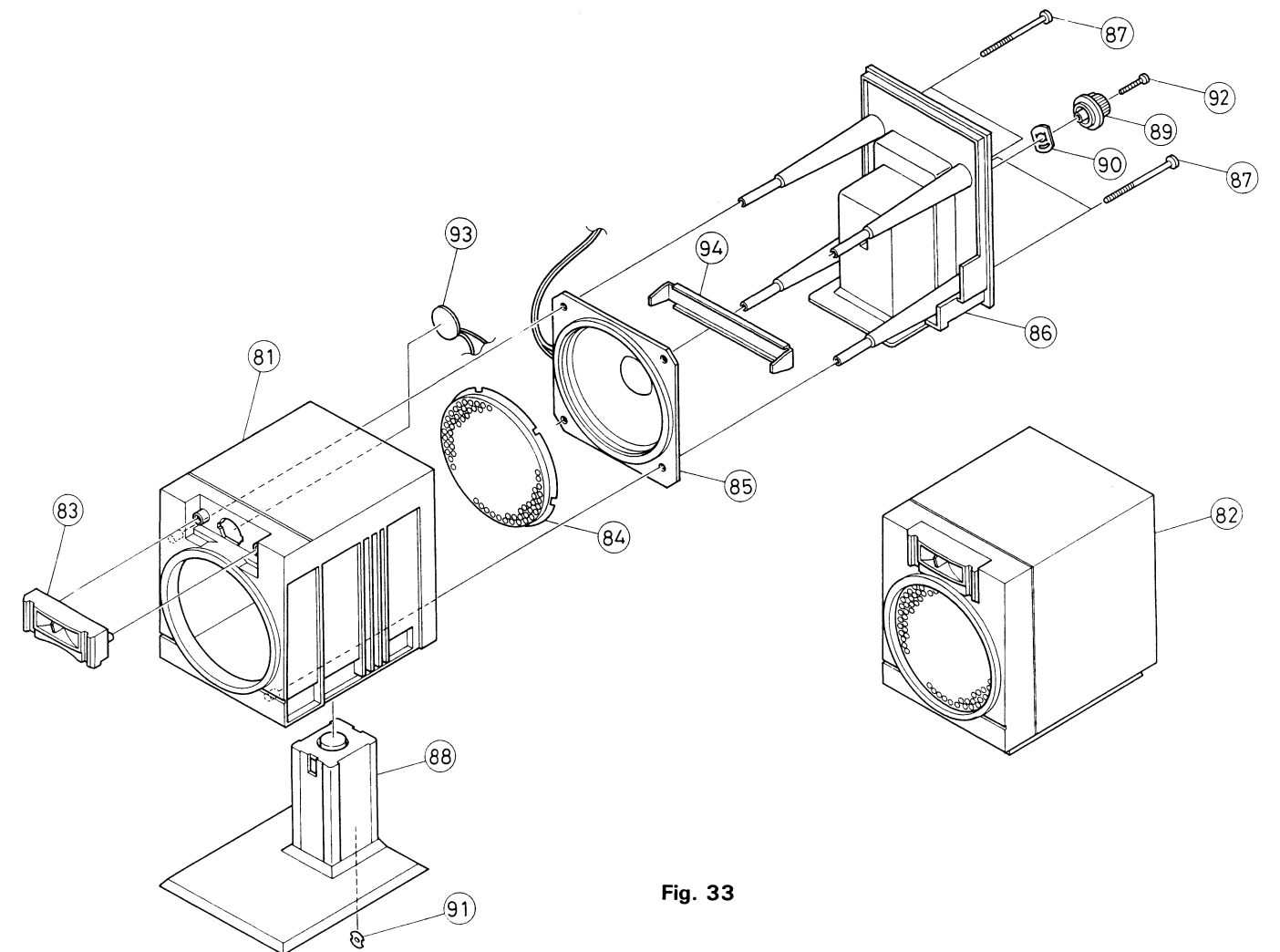


Fig. 33

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Speaker System Assembly Parts List

	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	81	VJC1411-005	Front Cabinet (L)	Silver	1
		" -004	"	Red	1
		" -003	"	Black	1
	82	VJC1413-005	Front Cabinet (R)	Silver	1
		" -004	"	Red	1
		" -003	"	Black	1
	83	VJD3527-002	Grill		1
	84	VJD4744-002	Panching Panel		1
	85	EAS10P239SG	Cone Speaker		1
	86	VJC1412-007	Rear Cabinet	Silver	1
		" -006	"	Red	1
		" -003	"	Black	1
	87	SBSF3045Z	Screw		4
	88	VJD1109-001	Stand		1
	89	VXL4249-002	Knob		1
	90	VYH5707-002	Slider		1
	91	VYH5708-002	Plate		1
	92	SDSP3014Z	Screw		1
	93	EFB-S77D41	Speaker	Twiter	1
	94	VYH5414-001	Stay		1

Exploded View of Mechanical Component Parts

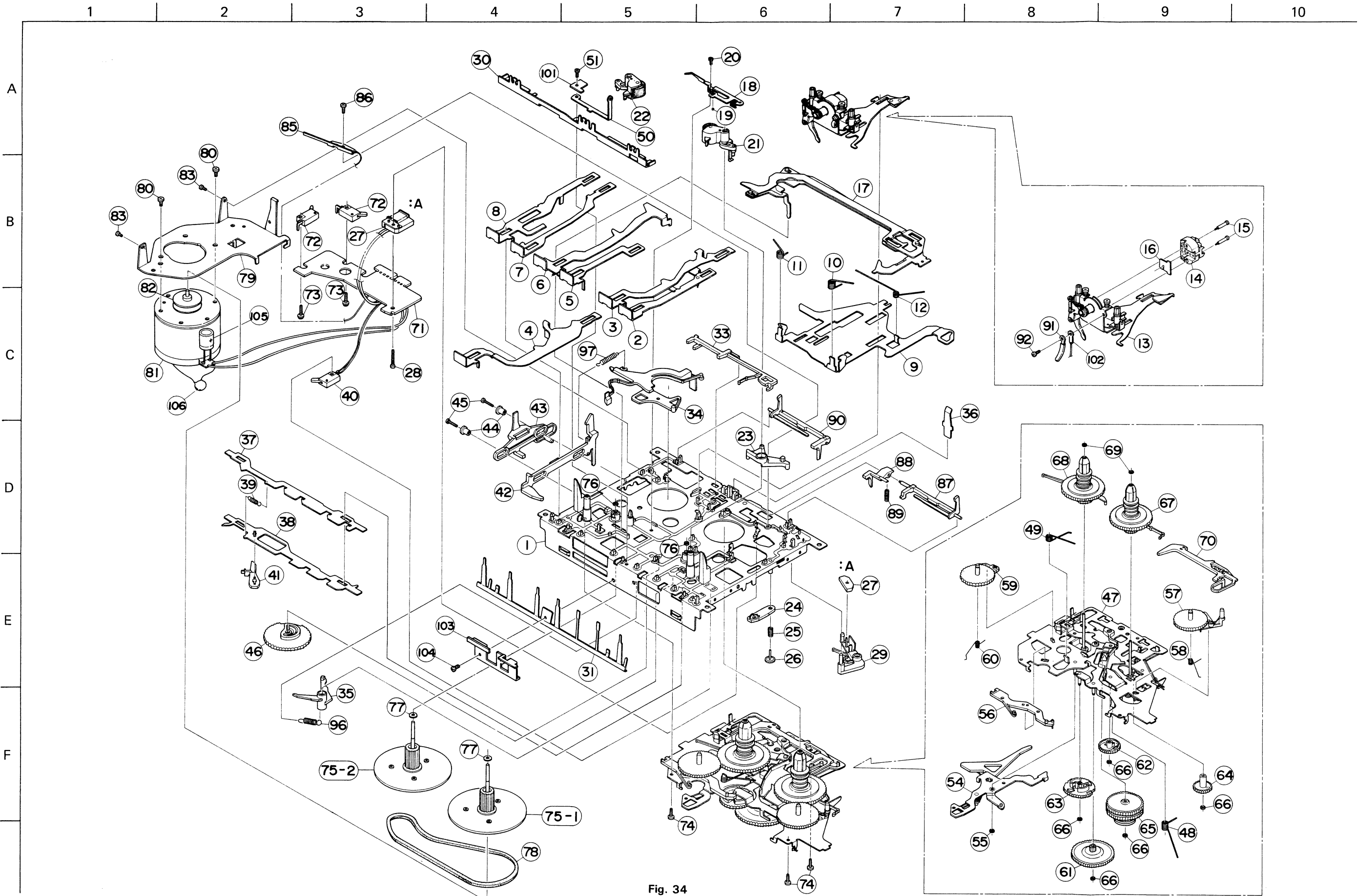


Fig. 34

Enclosure Assembly and Electrical Parts List

△ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VJC1408-009	FRONT CABINET	SILVER	1
		VJC1408-010	FRONT CABINET	RED	1
		VJC1408-011	FRONT CABINET	BLACK	1
	1-4	ZCPR50()-FBK	F.CABINET ASS'Y	BLACK	1
		ZCPR50()-FSL	F.CABINET ASS'Y	SILVER	1
		ZCPR50()-FRD	F.CABINET ASS'Y	RED	1
	2	VJK3299-005	DIAL SCALE		1
	3	VJK4232-002	LENS		1
	4	VJD3524-005	PANEL		1
	5	VYH5601-001	GEAR		1
	6	VYH5602-001	HOLDER		1
	7	VJT2105-002	CASSETTE DOOR		1
	7-10	ZCPCR50-CH	C.HOLDER ASS'Y		1
	8	VJK4233-004	LID PLATE		1
	9	VJK4234-002	COVER		1
	10	VKY4180-002	SPRING		2
	11	Q03091-130	WASHER		2
	12	SBSF2608Z	SCREW		2
	20	VYH5700-001	SPRING		1
	21	VYH5701-002	SPRING		1
	22	VYH1142-002	CHASSIS BASE		1
	23	V40409-2	ROLLER		4
	24	VYH4034-003	RIVET		4
	25	VYH5416-001	DRUM		1
	26	VHR2ZK9-05AT	DIAL CORD		1
	27	50153-3	SPRING		1
	28	VXL4248-002	TUNING KNOB		1
	29	VJN4086-003	NEEDLE	POINTER	1
	30	VYH5706-002	SLIDER		2
	31	SBSF3010Z	SCREW		4
	32	VJD4865-002	PLATE		5
	36	VXP4404-001	PUSH KNOB		6
	37	SBSF3008Z	T.SCREW		3
	38	VDL7019-001M	PC-50 MECHA SA		1
	39	VJD4866-003	HOLDER		1
	40	VJD4867-001	SHEET		1
	41	SDSP2004Z	SCREW		1
	42	VXS4140-001	SLIDE KNOB	MODE	1
	43	SBSF3012C	SCREW		4
	44	VXS4142-002	SLIDE KNOB		2
	46	VYH5615-001	HEAT SINK		1
	47	SBSB3008Z	SCREW		2
	48	SBSB2606Z	SCREW		2
	49	VYH5689-002	TRANSF.BRACKET		2
	50	SDST3014Z	SCREW		2
	51	SBST4006Z	SCREW		2
	52	VYH4735-001	BRACKET		1
	53	SBSF3012Z	SCREW		3
	54	VXQ4046-002	KNOB	FUNCTION	2
	55	SBSF3012Z	SCREW		1
	56	VJC1409-009	REAR CABINET	SILVER	1
		VJC1409-010	REAR CABINET	RED	1
		VJC1409-011	REAR CABINET	BLACK	1
	57	VJA3006-00C	T.ANTENNA		1
	58	VYH5012-002	LUG TERMINAL		1

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	59	VYH5503-002	SPRING		1
	60	VYH5016-001	BATTERY CONTACT		1
	61	VYH4669-002	SPRING		1
	62	VJH4036-00V	HANDLE	RED	1
		VJH4036-00W	HANDLE	SILVER	1
		VJH4036-00Y	HANDLE	BLACK	1
	63	Q03093-509	WASHER		2
	64	VYH5634-001	SPRING		2
	65	VYN7019-006	NAME PLATE	PC-50B	1
		VYN7019-010	NAME PLATE	PC-50E	1
	66	SBSF3040Z	SCREW		4
	67	VXL4245-001	KNOB		1
	68	VJC3065-005	BATTERY COVER	RED	1
		VJC3065-006	BATTERY COVER	BLACK	1
		VJC3065-007	BATTERY COVER	SILVER	1
	71	SDSP3012R	SCREW		1
	72	VYH5723-002	PLATE		1
	73	VYH5730-001	ROLLER		2
	74	VYH5720-003	SPACER		1
△	75	VTP54N2-12HB	POWER TRANSF.	T901 PC-50E/G	1
△		VTP54N2-12HBBS	POWER TRANSF.	T901 PC-50B	1
	75-1	VYH5847-001	SHIELD CASE	FOR POWER TRANS.	1
	75-2	VYH5848-001	PLATE	FOR POWER TRANS.	1
	77	VYH5806-003	SHIELD PLATE		1
	98	VYH5805-002	TRANS SPACER		1
	99	VYH5801-001	TRANS HOLDER		1
		VYH5849-001	SHIELD PLATE	SOLDERING S803	1
	101	50242-2	LUG TERMINAL		1
	103	VXL4223-001	KNOB	FINE TUNING	1
	104	SBSF3010Z	SCREW		1
	105	SBSF3008Z	T.SCREW		2

NOTE:
Entry of the assembly part number
ZCPR50()-FBK
Enter the code name which is on the name plate and order the part.

Main and S.E.A. P.C. Board Parts List

△ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

△	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	IC101, IC201	BA3812L	I.C.		2
	IC804	LA2000S	I.C.		1
	IC802	M51544AL	I C		1
△	IC803	TA7282AP	I.C. (M)		1
	IC801	UPC1228H	I.C.		1
	Q821	2SA733A(P,K)	TRANSISTOR		1
	Q822	2SA733A(P,K)	TRANSISTOR		1
	Q831	2SC2001(L,K)	TRANSISTOR		1
	Q101, Q201	2SC2001(L,K)	TRANSISTOR		3
	Q751				
	Q102 -Q104	2SC945(P,Q)	TRANSISTOR		17
	Q171, Q202				
	Q203, Q204				
	Q271, Q501				
	Q502, Q601				
	Q602, Q752				
	Q802, Q811				
	Q841, Q851				
	Q801	2SC945L(P,Q)	TRANSISTOR		1
△	Q901	2SD468(C)	TRANSISTOR		1
△	D901	HZ7C3	Z DIODE		1
	D753, D802	MA165	SI.DIODE		2
	D752	RD4.3EB	DIODE		1
	D807, D808	SLB-26UR50F154	L.E.D.		2
	D171, D271	1SS254T-77	SI.DIODE		7
	D803 -D806				
	D841				
△	D996 -D999	11E1-TB2	SI DIODE		4
	VR811	QVM2A6A-023M	V.RESISTOR		1
	VR151, VR251	QVZ3512-104	V.RESISTOR		2
	VR801-VR805	QVZ5101-V02	V.RESISTOR		5
	VR101, VR201	QVZ5305-V01	V.RESISTOR		2
	CN901	QMV5005-003	PLUG		1
	S802	QSL7A62-V01	LEVER SWITCH		1
	S801	QSL7A63-V01	LEVER SWITCH		1
	S803	QSS1301-101	SLIDE SWITCH		1
△	S901	QSS2325-107	SLIDE SWITCH	PC-50 E/G	1
△	S901	QSS2325-107BS	SWITCH	PC-50 B	1
	L801	VQH1009-027	COIL		1
	L101, L201	VQP0001-473S	COIL		2
	L102, L202	VQP0001-562S	INDUCTOR		2
	R752	QRD141J-103	CARBON RESISTOR		1
	R801	QRD141J-223	CARBON RESISTOR		1
	R121, R223	QRD141J-332	C RESISTOR		3
	R857				
△	R901	QRD141J-4R7	C RESISTOR		1
	R102, R175	QRD161J-101	CARBON RESISTOR		7
	R202, R275				
	R803, R903				
	R912				
	R174, R274	QRD161J-102	CARBON RESISTOR		5
	R755, R833				
	R852				
	R165, R265	QRD161J-103	CARBON RESISTOR		9
	R502, R602				

△	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	R802, R804				
	R812, R831				
	R873				
	R172, R272	QRD161J-104	CARBON RESISTOR		4
	R806, R851				
	R142, R242	QRD161J-121	CARBON RESISTOR		2
	R855	QRD161J-122	CARBON RESISTOR		1
	R173, R273	QRD161J-123	CARBON RESISTOR		2
	R508, R608	QRD161J-151	CARBON RESISTOR		2
	R101, R201	QRD161J-152	CARBON RESISTOR		2
	R504, R604	QRD161J-153	CARBON RESISTOR		2
	R503, R603	QRD161J-155	C RESISTOR		2
	R107, R207	QRD161J-182	CARBON RESISTOR		2
	R108, R208	QRD161J-183	CARBON RESISTOR		2
	R854, R902	QRD161J-221	CARBON RESISTOR		2
	R501, R601	QRD161J-222	CARBON RESISTOR		3
	R805				
	R103, R203	QRD161J-224	CARBON RESISTOR		2
	R506, R606	QRD161J-225	C RESISTOR		2
	R113, R213	QRD161J-272	CARBON RESISTOR		2
	R127, R227	QRD161J-273	CARBON RESISTOR		2
	R861	QRD161J-3R3	CARBON RESISTOR		1
	R505, R605	QRD161J-331	CARBON RESISTOR		3
	R911				
	R109, R123	QRD161J-332	CARBON RESISTOR		8
	R152, R209				
	R221, R252				
	R507, R607				
	R872	QRD161J-334	CARBON RESISTOR		1
	R125, R225	QRD161J-391	CARBON RESISTOR		2
	R106, R111	QRD161J-392	CARBON RESISTOR		4
	R206, R211				
	R151, R251	QRD161J-393	CARBON RESISTOR		2
	R143, R243	QRD161J-4R7	C RESISTOR		2
	R905	QRD161J-470	CARBON RESISTOR		1
	R914	QRD161J-471	CARBON RESISTOR		1
	R114, R214	QRD161J-472	CARBON RESISTOR		6
	R807, R808				
	R863, R871				
	R112, R212	QRD161J-562	CARBON RESISTOR		3
	R874				
	R853	QRD161J-563	CARBON RESISTOR		1
	R171, R271	QRD161J-564	CARBON RESISTOR		2
	R909	QRD161J-680	CARBON RESISTOR		1
	R129, R229	QRD161J-681	CARBON RESISTOR		2
	R161, R162	QRD161J-682	CARBON RESISTOR		5
	R261, R262				
	R859				
	R144, R244	QRD161J-820	CARBON RESISTOR		2
	R122, R124	QRD161J-821	CARBON RESISTOR		8
	R126, R222				
	R224, R226				
	R832, R858				
	R104, R204	QRD161J-822	CARBON RESISTOR		2
	C130, C230	QCC11EM-103	C.CAPACITOR		2

△	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	C128 ,C143 C228 ,C243 C105 ,C205 C861 C109 ,C209	QCC11EM-104 QCC11EM-153 QCC11EM-223	C.CAPACITOR C.CAPACITOR C.CAPACITOR		4 3 2
	C121 ,C129 C221 ,C229 C874 C872 ,C916 C918 ,C996	QCC11EM-333 QCC11EM-473 QCF11HP-103	C.CAPACITOR C.CAPACITOR C CAPACITOR		4 1 7
	C997 -C999 C115 ,C215 C103 ,C203 C866 ,C867 C125 ,C225	QCS11HJ-121 QCS11HJ-221 QCS11HJ-271	C.CAPACITOR C.CAPACITOR C.CAPACITOR		2 4 2
	C131 ,C231 C846 C868 C123 ,C223 C869	QCY41HK-102 QCY41HK-182 QCY41HK-272 QCY41HK-392	C.CAPACITOR C.CAPACITOR C.CAPACITOR C.CAPACITOR		3 1 2 1
	C888 C863 ,C871 C102 ,C124 C202 ,C224 C848	QCY41HK-471 QCY41HK-682 QCY41HK-821 QEK41EM-475	C.CAPACITOR C.CAPACITOR C.CAPACITOR E.CAPACITOR		1 2 4 1
	C145 ,C245 C903 ,C908 C144 ,C244 C914 ,C915 C805 ,C904	QET41AM-477 QET41AR-107 QET41AR-227	E.CAPACITOR E.CAPACITOR E CAPACITOR		4 4 2
	C104 ,C133 C142 ,C204 C212 ,C242 C801 ,C841 C875 ,C906	QET41AR-476	E CAPACITOR		11
	C113 ,C172 C213 ,C272 C751 ,C807 C912 C913	QET41CR-106 QET41CR-107	E CAPACITOR E CAPACITOR		7 1
△	C901 C101 ,C106 C108 ,C126 C132 ,C171 C201 ,C206	QET41CR-228 QET41HR-105	E.CAPACITOR E.CAPACITOR		1 22
	C208 ,C226 C232 ,C271 C501 -C504 C601 -C604 C851 ,C852				
	C811 C127 ,C227 C122 ,C222 C173 ,C273 C873	QET41HR-225 QET41HR-334 QFN41HJ-822 QFV41HJ-223 QFV41HJ-224	E CAPACITOR E CAPACITOR M.CAPACITOR TF.CAPACITOR TF CAPACITOR		1 2 2 2 1

△	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	C865	QFV41HJ-273	TF.CAPACITOR		1
△	J901	QMC0263-004	AC SOCKET	PC-50E/G	1
△	J901	QMC0263-004BS	AC SOCKET	PC-50B	1
	J881	QMC9014-006	DIN SOCKET		1
	J803	QMS3507-001H	HEADPHON JACK		1
	J801	VMJ3007-002	JACK		1
	J804	VMJ4014-001	SPK.TERMINAL		1

Mechanical Component Parts List

△ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VKL1236-00C	CHAS.BASE ASY.		1
	2	VKL5652-00C	BAR		1
	3	VKL3570-002	FF BAR		1
	4	VKL3571-002	REW BAR		1
	5	VKL5653-001	PLAY BAR		1
	6	VKL3572-002	REC BAR		1
	7	VKL3573-001	STOP/EJECT BAR		1
	8	VKL3574-001	DIRECTION BAR		1
	9	VKL5654-00D	SLIDE BASE		1
	10	VKW3008-014	SPRING		1
	11	VKW3008-013	SPRING		1
	12	VKW3006-107	SPRING		1
	13	VKL2231-00C	HEAD BASE ASS'Y		1
	14	VGH0425-514	R/P HEAD		1
	15	VKZ4291-001	HEAD SCREW		2
	17	VKL3603-00B	BAR		1
	18	VKY4351-001	SPRING		1
	19	T41615-004	STEEL BALL		1
	20	VKZ4248-203	SCREW		1
	21	VKP4156-00E	PINCH ROL.ARM	(FWD)	1
	22	VKP4160-00D	PINCH ROL.ARM	(REV)	1
	23	VKS4684-002	LEVER		1
	24	VKS4552-004	PAUSE LOCK CAM		1
	25	VKW3001-122	COMPRESSION SP.		1
	26	VKS4683-001	STOPPER		2
	27	VGP0705-001	SOLENOID		1
	28	VKZ4277-002	MINI SCREW		1
	29	VKS4712-00D	LEVER		1
	30	VKL3578-002	STOPPER		1
	31	VKY3113-001	BAR SPRING		1
	33	VKS3225-004	BAR		1
	34	VKS3236-004	RECORDING LEVER		1
	35	VKS4705-002	PLAY BAR		1
	36	VKY4353-002	PACK SPRING		1
	37	VKL3579-002	CAM		1
	38	VKL3580-003	SWITCH CAM		1
	39	VKW3002-169	TENSION SPRING		1
	40	VSH1123-005	LEAF SWITCH		1
	41	VKS4687-002	SELECT LEVER		1
	42	VKS3226-003	LOCK BAR		1
	43	VKS4688-002	BAR		1
	44	VKH3001-063	FLANGE COLLER		2
	45	VKZ4248-208	MINI SCREW		2
	46	VKS3227-002	GEAR		1
	47	VKL2226-00D	BASE		1
	48	VKW3006-118	SPRING		1
	49	VKW4528-001	SPRING		1
	50	VKL5837-001	PLATE		1
	51	VKZ4248-205	MINI SCREW		1
	54	VKS3230-00C	D.LEVER ASS'Y		1
	55	VKZ4004-028	WASHER		1
	56	VKS3233-00D	D. TRIGER ASS'Y		1
	57	VKS4691-00A	TAKE UP LEVER		1
	58	VKW3008-009	TORSION SPRING		1
	59	VKS4694-00A	TAKE UP LEVER		1

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	60	VKW4527-001	TORSION SPRING		1
	61	VKS4696-004	MIDDLE GEAR		1
	62	VKS3234-003	AUTO CAM GEAR		1
	63	VKS3235-001	DIR. CAM GEAR		1
	64	VKS4697-001	FF GEAR		1
	65	VKR4416-00A	FR CLATCH ASS'Y		1
	66	VKZ4004-028	WASHER		5
	67	VKR4417-00C	TAKE UP ROLLER	(FWD)	1
	68	VKR4419-00C	TAKE UP ROLLER	(REV)	1
	69	VKZ4004-013	WASHER		2
	70	VKS3250-003	FR BAR		1
	71	VMW3222-201	PW BOARD		1
	72	VSH1123-004	LEAF SWITCH		1
		VSH1123-004	LEAF SWITCH		1
	73	VKZ4276-002	SPECIAL SCREW		2
	74	F00410-25N	SCREW		3
	75-1	VKF3136-00A	FLY WHEEL		1
	75-2	VKF3135-00C	FLY WHEEL		1
	76	VKZ4004-027	WASHER		2
	77	Q03093-838	WASHER		4
	78	VKB3000-084	CAPSTAN BELT(R)		1
	79	VKL3581-002	MOTOR BRACKET		1
	80	VKZ4248-203	SCREW		2
	81	BFA2L79	DC MOTOR		1
	82	VKR4427-003	MOTOR PULLEY		1
	83	SPSK2625Z	MINI SCREW		2
	85	VKY4359-003	SWITCH		1
	86	F00410-25N	SCREW		1
	87	VKS3222-001	RECORDING LEVER		1
	88	VKS3223-002	RECORDING LEVER		1
	89	VKW3001-154	SPRING		1
	90	VKS3224-002	REC SAFETY L		1
	91	VKZ4001-013	WIRE CLAMP		1
	92	VKZ4248-203	SCREW		1
	96	VKW3002-172	SPRING		1
	97	VKW3002-174	SPRING		1
	101	VKL5860-001	PLATE		1
	102	F00414-01	LUG TERMINAL		1
	103	VYH5787-001	BRACKET		1
	104	VKZ4248-203	SCREW		1
	105	QET41CR-226	E CAPACITOR		1
	106	QCS11HJ-101	C.CAPACITOR		1

Packing

Positions of controls and switch knobs at renewed packing

Tape select	: NORMAL
Reverse mode	: 
Direction	: FWD 
Mechanism operation button	: OFF
Source switch	: TAPE
Sea	: "0"
Volume	: CENTER
Band	: AM
Beat cut	: "1" NORM
Mixing mic	: MIN
Tuning	: 600 kHz
FM mode switch	:  STEREO

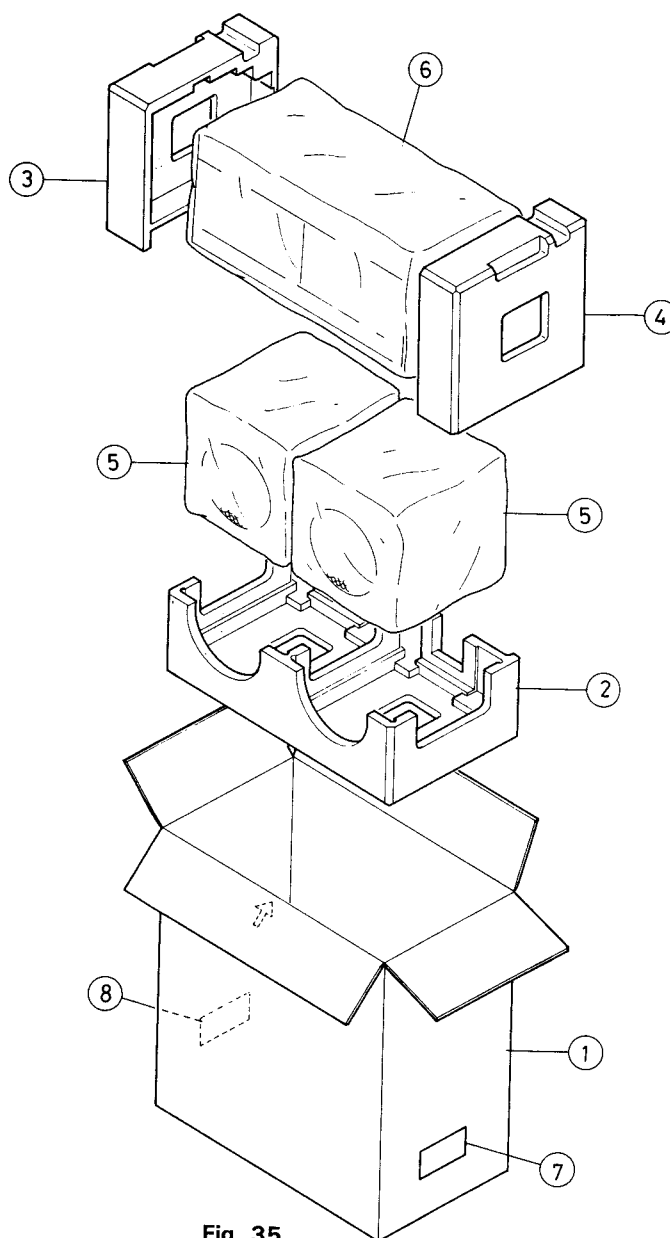


Fig. 35

⚠ parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

Packing Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC7019-006	Carton	PC-50 B	1
		" -007	"	PC-50 E	1
	2	VPH1353-001	Lower Cushion		1
	3	VPH1354-001	Side Cushion		1
	4	VPH1355-001	"		1
	5	VPE3005-016	Poly Bag	for Speaker	2
	6	QPGA012-02505	"		1
		VND4153-001	Sheet	for Unit	1
		VPE3005-007	Poly Bag		1
		" -038	"		1
	7	VND4001-001	Serial Ticket		1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Part No.	Parts Name	Remarks	Q'ty
⚠	VNM0997-301	Instruction Book		1
⚠	QMP9017-009BS	Power Cord	PC-50 B	1
⚠	QMP3950-183	"	PC-50 E/G	1
	VND4143-003	Caution		1
	BT20060	Guarantee Card	PC-50 B	1
	BT20066	"	"	1
	31465-18	Mark	"	1
	QZL1002-003	Warning Label	"	1
	VNF0985-001	Feature Tag	# 1 ~ # 1500	1
	VNA1001-009	Customers Card	PC-50 B # 1 ~ # 1000	1
	BT20065	Warranty Card	PC-50 G	1
	BT20054-003A	Caution Sheet		1
	VND4027-006	DOLBY Label		1

JVC

VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city, Japan

JVC**SERVICE MANUAL**

PORTABLE COMPONENT SYSTEM

MODEL **PC-50 A/C/J/U**
PC-50 B/E/G**Supplementary**

This manual is a supplement to the service manual for model PC-50 A/C/J/U (No. 1571) and PC-50 B/E/G (No. 1580).
Additional contents of the service manual are as follows.

Enclosure Assembly and Electrical parts List. Page 30

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	13	VXP4436-102	PUSH BUTTON	DIRECTION	1
	14	VXP4436-103	PUSH BUTTON	STOP/EJECT	1
	15	VXP4436-104	PUSH BUTTON	RECORD	1
	16	VXP4436-101	PUSH BUTTON	PLAY	1
	17	VXP4436-105	PUSH BUTTON	< <	1
	18	VXP4436-106	PUSH BUTTON	> >	1
	19	VXP4436-107	PUSH BUTTON	PAUSE	1

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